



SDMS DocID

REMEDIAL ACTION COMPLETION REPORT DEBRIS, SLUDGE, AND MIXED-CONTAMINANT SOIL REMOVAL

Appendices J-U

Wildwood Property Wells G & H Superfund Site Woburn, MA

Superfund Records Center SITE: Wells 6711

BREAK: Ik

OTHER: 553623

Prepared For:

BEATRICE COMPANY

Prepared By:

REMEDIATION TECHNOLOGIES, INC. 9 Pond Lane Concord, MA 01742

RETEC Project No.: 3-0947-730

MARCH 1995

LIST OF APPENDICES

Appendix A	Debris Investigation
Appendix B	Drum Residues Characterization
Appendix C	Debris Soil Characterization
Appendix D	Miscellaneous Debris
Appendix E	Drum Residues/Transportation/Disposal
Appendix F	Debris Soil A - Transportation and Disposal
Appendix G	Debris Pile Compliance Sampling
Appendix H	Sludge Investigation
Appendix I	Sludge Characterization
Appendix J	Sludge Transportation and Disposal
Appendix K	Sludge Compliance Sampling
Appendix L	Soil Investigations
Appendix M	Supplemental PCB Sampling
Appendix N	Supplement Area 4 Sampling
Appendix O	Incinerated Mixed-Contaminant Soil Characterization
Appendix P	Non TSCA Incinerated Soil Transportation and Disposal
Appendix Q	TSCA Soil Transportation and Disposal
Appendix R	Tailings and Stumps Transportation and Disposal
Appendix S	Mixed Contaminant Soil Compliance Sampling Plan
Appendix T	Mixed Contaminant Soil Compliance Sampling
Appendix U	Barium Soil Investigation
Appendix V	CLP Data Packages

3-0947\doc\srtc5.rpt March 16, 1995

APPENDIX J

SLUDGE TRANSPORTATION AND DISPOSAL

GROUP F HAZARDOUS SLUDGE





COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE

One Winter Street Boston, Massachusetts 02108

1		11 IC	1. Generator U	S EPA ID No.		Manifest	2. Pag	e 1 Informatio	n in the shaded	areas
	UNIFORM HAZARDO WASTE MANIFEST	1.		9 β 5 5	Do	Manifest cument No	of 1	. !	ired by Federal	law.
-	3. Generator's Name and Mailing		I P I' V	<u> </u>	<u> </u>	Sicole II		te Manifest Docu		
	Beatric Co. c/o Ret	tec		-			MA	H37486	8	hiplas o
2	Pond Lane, Concor		742		4		B. Stat	e Gen. ID		
	4. Generator's Phone (508)	371-1422						. sa	me skelij	
	5. Transporter 1 Company Na			-	US EPA ID Number		C.Stat	e Trans. ID	2 72 T	Z mn
F	ranklin Environmer	ntal Serv	ices Inc.					nsporter's Phone		<i>W(T </i>
- 1	7. Transporter 2 Company Na	me		8	US EPA ID Number	7 1 1 1	D. Trai	te Trans. ID	1000 100	4=0131
-				10.	US EPA ID Numbe				1 21 9 3	
F	9. Designated Facility Name and S Envirosafe Services			10.	OS EFAID Numbe	•		nsporter's Piline	175.47 31. (47732-47)45	
	376 Otter Creek Roa		Box 16751	1				te Facility's ID		
	Oregon, OH 43616-75			DHDO	4 5 2 A G	706	H. Fac	ility's Phone (4	19 255-	5100 🔬
			- Al Usaned	Class and ID N	lumbasi	12. Cont	ainers	13. Total	14. Unit	Waste No.
ŀ	11. US DOT Description (Including					No.	Туре	Quantity	Wt/Vol	347(32)
	 Hazardous Waste S 9, NA3077, PG II RQ(Chlordane, DO 	Solid, n.	0.5.			1			VALE	D:0°0 8
	9, NA3077, PG II	I(marine	pollutan	t)		hal	T A	20015	1/_	h 0 0 c
-	RQ(Chlordane, DU	08, 0020)	, (EKG#3	1)		VV	PIG		1	h h k h
G	b.	· • 1=						,		
E				•			1 , 1			
Εŀ	•					1	1-1-1			14.00 TO 25.00
3	c.					i]			
T O									ļ	開對菌
R	d									
		:		•	The second second		ļ . ļ	_	1	特別等
								adling Codes for	Nasteclisted	Above
ı,	J. Additional Descriptions for Ma hazardous contamin	aterials Listed Abo	ove (include phy	sicci state and f	hezerá code !	45	4	acing Codes for	rvastes risten	AUUVO
- 13	[[4/24] [[4]:1] [4]:11 [4]	aten som		, it is a second			/)&o 🐘		
	15698-001	ateu soii	c.				1.1		c.	
,	15698-001		c. ·				a.L	SCIF	e.	1 1
	15698-001	ateu soii	c. ·				a. L	5C F	h	
	6° 15698-001		d.				b.	5c F	h	
	ь 15698-001		d.				ъ.	5c F 1000	m (B)	」! ユー ンナ
	b. 15698-001 15. Special Handling Instructions	s and Additional li	d.	-5053		escribed above	b.	124°	m (B1)	1
	b. 15698-001 15. Special Handling Instructions EMERGENCY CONTACT: 16. GENERATOR'S CERTIFICATION: 17. Special Are class	s and Additional line and Additional line and Additional line and	d. nformation 800-535 he contents of this ed, and labeled, an	-5053 consignment are foliated are in all respects	fully and accurately d	escribed above or transport by	b.	124°	m (3)	1 L 1
	b. 15. Special Handling Instructions 16. GENERATOR'S CERTIFICATION: In proper shipping name and are class according to applicable internation	s and Additional li INFOTRAC hereby declare that t sified, packed, mark- nal and national gove	d. nformation 800-535 he contents of this ed, and labeled, an irrnment regulation:	–5053 consignment are fid are in all respects	fully and accurately d s in proper condition f	or transport by	rha denree	5CF 424	(B ()	y practicable
	b. 15. Special Handling Instructions EMERGENCY CONTACT: 16. GENERATOR'S CERTIFICATION: I har proper shipping name and are class according to applicable internation. If I am a large quantity generator.	INFOTRAC hereby declare that to sified, packed, markinal and national gove to certify that I have a	d. nformation 800–535 he contents of this ed, and labeled, an trument regulation: program in place to	-5053 consignment are find are in all respects. s. o reduce the volum	fully and accurately d s in proper condition f ne and toxicity of was	te generated to	the degree	Thave determined to druge threat to hunacement method it.	o be economically	y practicable he environ-me and that I
	EMERGENCY CONTACT: 15. Special Handling Instructions EMERGENCY CONTACT: 16. GENERATOR'S CERTIFICATION: I h proper shipping name and are class: according to applicable internation If I am a large quantity generator, I and that I have selected the practic ment; OR, if I am a small quantity s	INFOTRAC hereby declare that to sified, packed, markinal and national gove to certify that I have a	d. nformation 800–535 he contents of this ed, and labeled, an trument regulation: program in place to	-5053 consignment are find are in all respects. s. o reduce the volum	fully and accurately d s in proper condition f ne and toxicity of was	te generated to	the degree	Thave determined to disture threat to be magement method to	o be economically	me and that I
	b. 15. Special Handling Instructions EMERGENCY CONTACT: 16. GENERATOR'S CERTIFICATION: If proper shipping name and are class according to applicable internation If I am a large quantity generator. I and that I have selected the practic ment; OR, if I am a small quantity gean afford.	INFOTRAC hereby declare that to sified, packed, markinal and national gove to certify that I have a	d. nformation 800–535 he contents of this ed, and labeled, an trument regulation: program in place to	-5053 consignment are find are in all respects. oreduce the volume disposal currently part to minimize my	fully and accurately d s in proper condition f me and toxicity of was available to me which waste generation and	te generated to	the degree	Thave determined to distinct the transfer method to	o be economically	Date
	b. 15. Special Handling Instructions EMERGENCY CONTACT: 16. GENERATOR'S CERTIFICATION: If proper shipping name and are class according to applicable internation If I am a large quantity generator, I and that I have selected the practic ment; OR, if I am a small cuantity scan afford. Frinted/Typed Name	INFOTRAC hereby declare that to sified, packed, markinal and national gove to certify that I have a	d. nformation 800–535 he contents of this ed, and labeled, an trument regulation: program in place to	-5053 consignment are find are in all respects. oreduce the volume disposal currently part to minimize my	fully and accurately d s in proper condition f ne and toxicity of was	te generated to	the degree	Thave determined to distribute threat to hunagement method to	o be economically man health and to nat is available to	Date
	b. 15. Special Handling Instructions EMERGENCY CONTACT: 16. GENERATOR'S CERTIFICATION: If proper shipping name and are class according to applicable internation If I am a large quantity generator. I and that I have selected the practic ment; OR, if I am a small quantity gean afford. Frinted/Typed Name 12. 110	INFOTRAC hereby declare that t isified, packed, markinal and national gove I certify that I have a cable method of treat generator, I have mai	d. nformation 800 – 535. he contents of this ed, and labeled, an irriment regulation: program in place to timent, storage, or de a good farm effo	-5053 consignment are find are in all respects. oreduce the volume disposal currently part to minimize my	fully and accurately d s in proper condition f me and toxicity of was available to me which waste generation and	te generated to	the degree	Thave determined to diffusion threat to humagement method to	be economically man health and that is available to	Date
TRA	b. 15. Special Handling Instructions EMERGENCY CONTACT: 16. GENERATOR'S CERTIFICATION: If proper shipping name and are class according to applicable internation If I am a large quantity generator, I and that I have selected the practic ment; OR, if I am a small cuantity scan afford. Frinted/Typed Name	INFOTRAC hereby declare that t isified, packed, markinal and national gove I certify that I have a cable method of treat generator, I have mai	d. nformation 800 – 535. he contents of this ed, and labeled, an irriment regulation: program in place to timent, storage, or de a good farm effo	-5053 consignment are find are in all respects. oreduce the volume disposal currently part to minimize my	fully and accurately d s in proper condition f me and toxicity of was available to me which waste generation and	te generated to	the degree	Thave determined to disture threat to hu nagement method to	be economically man health and that is available to	Date Day Ye. Date
T	b. 15698-001 15. Special Handling Instructions 16. GENERATOR'S CERTIFICATION: If proper shipping name and are class according to applicable internation. If I am a large quantity generator, I and that I have selected the disaction of the I am a small quantity generator. If I acknowledged the I acknowledged t	INFOTRAC hereby declare that t sisfied, packed, mark- nal and national gove I certify that I have a cable method of trea generator, I have mark digement of Recei	d. 800-535 he contents of this ed, and labeled, an irriment regulation: program in place titment, storage, or de a good farm efficient of Materials	-5053 consignment are find are in all respects. oreduce the volume disposal currently part to minimize my	fully and accurately d s in proper condition f me and toxicity of was available to me which waste generation and	te generated to	the degree	Thave determined to distinct the state of th	obe economically man health and that is available to Month	Date Day Ye. Date Day Ye. Date Day Ye.
HE4ZWCOE	b. 15. Special Handling Instructions EMERGENCY CONTACT: 16. GENERATOR'S CERTIFICATION: I Proper shipping name and are class: according to applicable internation If I am a large quantity generator. I and that I have selected the practicement; OR, if I am a small cushtity can afford. Frinted/Typed Name 17. Transporter 1 Acknowled Printed/Typed Name 18. Transporter 2 Acknowled	INFOTRAC hereby declare that t sisfied, packed, mark- nal and national gove I certify that I have a cable method of trea generator, I have mark digement of Recei	d. 800-535 he contents of this ed, and labeled, an irriment regulation: program in place titment, storage, or de a good farm efficient of Materials	= 5053 It consignment are fold are in all respects. So reduce the volume disposal currently part to minimize my	fully and accurately distribution of the and toxicity of was available to me which waste generation and	te generated to	the degree	Thave determined to different method to magement method to	be economically man health and that is available to Month DP	Date Day Ye. Date Day Ye. Date Day Ye. Date
TROPOSTAL	b. 15698-001 15. Special Handling Instructions 16. GENERATOR'S CERTIFICATION: If proper shipping name and are class according to applicable internation. If I am a large quantity generator, I and that I have selected the disaction of the I am a small quantity generator. If I acknowledged the I acknowledged t	INFOTRAC hereby declare that t sisfied, packed, mark- nal and national gove I certify that I have a cable method of trea generator, I have mark digement of Recei	d. 800-535 he contents of this ed, and labeled, an irriment regulation: program in place titment, storage, or de a good farm efficient of Materials	= 5053 It consignment are fold are in all respects. So reduce the volume disposal currently part to minimize my	fully and accurately d s in proper condition f me and toxicity of was available to me which waste generation and	te generated to	the degree	Thave determined to disture threat to hunagement method to	obe economically man health and that is available to Month	Date Day Ye Date Day Ye Date Day Ye Date
⊢E4ZW0-OE	EMERGENCY CONTACT: 15. Special Handling Instructions EMERGENCY CONTACT: 16. GENERATOR'S CERTIFICATION: I he proper shipping name and are class according to applicable internation if I am a large quantity generator. I and that I have selected the practic ment; OR, if I am a small quantity gean afford. Frinted/Typed Name A. A	INFOTRAC hereby declare that t sified, packed, mark hal and national gove I certify that I have a cable method of trea generator, I have mai	d. 800-535 he contents of this ed, and labeled, an irriment regulation: program in place titment, storage, or de a good farm efficient of Materials	= 5053 It consignment are fold are in all respects. So reduce the volume disposal currently part to minimize my	fully and accurately distribution of the and toxicity of was available to me which waste generation and	te generated to	the degree	Thave determined to diffusion to hunagement method to	be economically man health and that is available to Month DP	Date Day Ye Date Day Ye Date
T REALMOND ON THE LE	b. 15. Special Handling Instructions EMERGENCY CONTACT: 16. GENERATOR'S CERTIFICATION: I Proper shipping name and are class: according to applicable internation If I am a large quantity generator. I and that I have selected the practicement; OR, if I am a small cushtity can afford. Frinted/Typed Name 17. Transporter 1 Acknowled Printed/Typed Name 18. Transporter 2 Acknowled	INFOTRAC hereby declare that t sified, packed, mark hal and national gove I certify that I have a cable method of trea generator, I have mai	d. 800-535 he contents of this ed, and labeled, an irriment regulation: program in place titment, storage, or de a good farm efficient of Materials	= 5053 It consignment are fold are in all respects. So reduce the volume disposal currently part to minimize my	fully and accurately distribution of the and toxicity of was available to me which waste generation and	te generated to	the degree	Thave determined to distribute threat to humagement method to	be economically man health and that is available to Month DP	Date Day Ye. Date Day Ye. Date Day Ye. Date
FECTOROLINE FA	EMERGENCY CONTACT: 15. Special Handling Instructions EMERGENCY CONTACT: 16. GENERATOR'S CERTIFICATION: I he proper shipping name and are class according to applicable internation if I am a large quantity generator. I and that I have selected the practic ment; OR, if I am a small quantity gean afford. Frinted/Typed Name A. A	INFOTRAC hereby declare that t sified, packed, mark hal and national gove I certify that I have a cable method of trea generator, I have mai	d. 800-535 he contents of this ed, and labeled, an irriment regulation: program in place titment, storage, or de a good farm efficient of Materials	= 5053 It consignment are fold are in all respects. So reduce the volume disposal currently part to minimize my	fully and accurately distribution of the and toxicity of was available to me which waste generation and	te generated to	the degree	1 have determined to different method to	be economically man health and that is available to Month DP	Date Day Ye. Date Day Ye. Date Day Ye. Date
T DEMINOURS I	EMERGENCY CONTACT: 16. GENERATOR'S CERTIFICATION: I Proper shipping name and are class according to applicable internation of that I have selected the practice ment; OR, if I am a small quantity great afford. Frinted/Typed Name 17. Transporter 1 Acknowler Printed/Typed Name 18. Transporter 2 Acknowler Printed/Typed Name 19. Discrepancy Indication Space	INFOTRAC hereby declare that to sified, packed, mark hall and national gove a cable method of treagenerator. I have marked the control of treagenerator of Received and part of R	d. nformation 800–535. he contents of this ed, and labeled, an imment regulation: program in place to timent, storage, or de a good farm efformation of the edge	-5053 consignment are followed are in all respects. o reduce the volum disposal currently ont to minimize my	fully and accurately distinct of the single proper condition of the and toxicity of was available to me which waste generation and signature	te generated to a minimizes the lessent the best	the degrae present an waste ma	nagement method t	be economically man health and that is available to Month DP	Date Day Yes Day Yes Date Day Yes
T THE THE TO A CONTRACT LA	EMERGENCY CONTACT: 15. Special Handling Instructions EMERGENCY CONTACT: 16. GENERATOR'S CERTIFICATION: I he proper shipping name and are class according to applicable internation if I am a large quantity generator. I and that I have selected the practic ment; OR, if I am a small quantity gean afford. Frinted/Typed Name A. A	INFOTRAC hereby declare that to sified, packed, mark hall and national gove a cable method of treagenerator. I have marked the control of treagenerator of Received and part of R	d. nformation 800–535. he contents of this ed, and labeled, an imment regulation: program in place to timent, storage, or de a good farm efformation of the edge	-5053 consignment are followed are in all respects. o reduce the volum disposal currently ont to minimize my	fully and accurately distinct of the single proper condition of the and toxicity of was available to me which waste generation and signature	te generated to a minimizes the lessent the best	the degrae present an waste ma	nagement method t	be economically man health and that is available to Month DP	Date Day Yes Day Yes Date Day Yes
FRAZWOORTHE FACILIT	b. 15. Special Handling Instructions EMERGENCY CONTACT: 16. GENERATOR'S CERTIFICATION: I he proper shipping name and are class according to applicable internation. If I am a large quantity generator, I and that I have selected the practice ment; OR, if I am a small quantity generator, I can afford. Frinted/Typed Name 17. Transporter 1 Acknowler Printed/Typed Name 18. Transporter 2 Acknowler Printed/Typed Name 19. Discrepancy Indication Space 20. Facility Owner or Operator:	INFOTRAC hereby declare that to sified, packed, mark hall and national gove a cable method of treagenerator. I have marked the control of treagenerator of Received and part of R	d. nformation 800–535. he contents of this ed, and labeled, an imment regulation: program in place to timent, storage, or de a good farm efformation of the edge	-5053 consignment are fold are in all respects to reduce the volumed disposal currently part to minimize my	fully and accurately distinct of the single proper condition of the and toxicity of was available to me which waste generation and signature	te generated to a minimizes the lessent the best	the degrae present an waste ma	nagement method t	be economically man health and that is available to Month DP	Date Date Date Date Date Date Date Date
FEAZWAORTHE FACIL	EMERGENCY CONTACT: 16. GENERATOR'S CERTIFICATION: I Proper shipping name and are class according to applicable internation of that I have selected the practice ment; OR, if I am a small quantity great afford. Frinted/Typed Name 17. Transporter 1 Acknowler Printed/Typed Name 18. Transporter 2 Acknowler Printed/Typed Name 19. Discrepancy Indication Space	INFOTRAC hereby declare that to sified, packed, mark hall and national gove a cable method of treagenerator. I have marked the control of treagenerator of Received and part of R	d. nformation 800–535. he contents of this ed, and labeled, an imment regulation: program in place to timent, storage, or de a good farm efformation of the edge	-5053 consignment are fold are in all respects to reduce the volumed disposal currently part to minimize my	fully and accurately distribution of sin proper condition of the and toxicity of was available to me which waste generation and signature.	te generated to a minimizes the lessent the best	the degrae present an waste ma	nagement method t	obe economically man health and that is available to Month Month Month	Date Date Date Date Date Date Date Date

C0PY>3:

USEPA ID 6HD 045 43706 ESOI/Envirosafe Services of Ohio, Inc. Ohio EPA 03-48-0092 Associated Chemical and Environmental Services, Inc. 876 Otter Creek Rd., P.O. Box 167571 Oregon, Ohio 43616-7571 **CERTIFICATE OF DISPOSAL** MP6179355523 PART A — Generator Information .Generator USEPA ID# Generator Name 0000 Manifest Document No. PART B - Waste Disposal Information Disposal Method Container **Disposal Date Product Code** No. Type Weight Number Mo. Day Year TR21.227 Disposal Method = D081-Landfill; D082-Landfarm; T04-Treatment Container Types = DR-Drum; TR-Truck; CT-Cargo Tanker; VT-Vacuum Tanker; RO-Rolloff I certify receipt and disposal of the above identified wastes at this facility. I certify that the above described wastes were disposed according to all applicable state & federal permits and requirements imposed by the generator. SIGNATURE. TITLE SCALE MASTER

DISTRIBUTION OF COPIES
WHITE — Office
CANARY — Generator
PINK — EPA

ESOI C/D 56-1650-3P Form 101

	1	FEDERAL CHIO LAND	DISPOSAL RESTRICTION N	OTIFICATION AND CERTIFIC.	ATION FORM WSID 15698-001	(l)
	TOR NAME _		у	10.00	WSID ==	
~ 1 ,	.D. NO. <u>MP</u> 6	179355523	<u> </u>	Marifest Doc. No	4 374868	
.IE	DEȘCRIPTION	Contaminated S	oil	EPA HW #'s DOUS	l I and	
58.20	Catécory: E [X]	NON-WASTEWATER F[WASTEWATER GK Sub	division: TC Toxic On.	Iy-Lead	
reatme	nt Sid Rells):)	([]40 CFR 252.41(a) Y[140 CFR 268.42(a) Z[]40	CFR 263.43(a)	I IDCOZ I ICWA []N	Kr-CWA
.	: acatac asimad s	OAC 3745-59-41-A	OAC 3745-59-42-A OA	C 3745-59-43-A [] CC01	3745-59-07 that the weste mater	tai being
					CFR 266 Subpart D / CAC 3745-6 lay not be land disposed until it if	seets the
si [] {	tancards releren 268.7(a)(2) / C	iced above of an une arrached IAC 3745-59-07-A-2: The waition levels in 40 CFR 258.33	a sheet. Vaste <u>meets</u> the applicable tre 2 / OAC 3745-59-32 . RCRA §	arment standards in 40 CER 2	268 Subpart D / OAC 3745-59 a realment standards for Fazardous	ind or the
4 2 () §	10 CFR 258.45 = 3 258.45 = 3 258.7(a)(3) / (3) / (3) / (4) /	and may be land discosed with DAC 3745-53-07-A-3: The resion or a Nationwice Variant tedditional treatment. The Fabrury berefy accordes the	incut aconicna treament. waste is subject to a § 258 g ce under 40 CFR 258. Subpart Peü": Exemption. Extension !cilicwing NOTIFICATION are	ranted petition, § 268.5 / CAC C or Variance under rules CAC or Variance will remain in effect For CERTIFICATION as requir	3745-59-05 exemption. a § 268 3745-59-30 to 3745-59-33 and mi until the date indicated in this No red by 40 CFR 258 / CAC 3745-	1.6 / OAC ay te land lification.
acolica	ible to the waste	material being shicced unce	EL TUE EDONE MAUREZE DOCUMEN	i Municei.	.**	
				Other Extension/Variance as D	until Detailed in 40 CFA 268.1.3745-59- A standards established in a nelitio	<u>01;</u>
5[]	This waste is ex	empt from land discosal rest	indions until	per (i.e applicable alternate	Standards established it a pentio	ni Granea
	The transfer of a contract of the contract of	alle da la constitución de les estaces.	4 /Ailemate Irealment standard	LES 200.43. /9230./(4/(//////	or 268.7(a)(3)(v) Gebris). List con	enenimal
	cubic of to track	naat aat 4077 bii 252 4516) a	nr circle on bade 21 L. LAISSRIC	: [] Barium	[[[[] [] [] [] [] [] [] [] [sterità
		•		· · · · · · · · · · · · · · · · · · ·	40 CFR 268.45. I am aware that	there are
	significant pena	ulties for submitting a faise of Pation in 1 destroyers	rdification, including the possible of treatments of the state of the	nt):	200,7 [U](2)(III) IIIaUE 7,C1.4.22.]. [Hai A (1971,
911	E DOW TIMESTIN	ar Leach, weder recally of	iaw ihat I have personally exa-	mined and am tamilial with the	treatment technology and opera	tion of the
	treatment procinionmation, 1 b 264; subpart 0 requirements, constituents.	ess used to support this ce elieve that the nonwestewate b, or by 40 CFR part 252, s and I have been unable to de I am aware that there are s	entification and that, based on er organic constituents have be subpain 0, or by combustion in elect the nonwastewater organic inclinitioant penalties for submitth and the AVEN with 10,000 and the constituents of the submitted of the subm	my inquiry of those individuals en treated by incineration in uni- tual substitution units operation constituents despite having uni- ting a false certification, inciudial for all ment standams!	its operated in accordance with 40 ing in accordance with applicable and best good faith efforts to analying the possibility of line and imp	De lecturical ze for such prisconnent
] 107	19 258.7(a)(2)(ii knowledge of tall applicable complete. I an OAC-3745-59- through knowl 3745-59-44 of	it I cently under penalty of the waste to support this cent prohibitions set forth in 40 in aware that there are significated per penalty under penalty unde	aw that I personally have examilification that the waste complied CFP 258.32 or RORA section least pondition for submitting a enalty of law that I personally him this cartification that the wastelland leading and applicable prohibitions set	ined and am familiar with the was with the treatment standards 2004(d). I believe that the intake conflication, including the even examined and am familiar waste complies with the treatmen orth in rule 3745-59-32 of the A	raste through analysis and testing specified in 40 CFR Pan 298 Substormation I submitted is true, ac possibility of a fine and imprisonmit the waste through analysis and it standards specified in miles 37 dministrative Code or section RCI as significant penalties for submiting present form who and increases.	icurate and lent. Id testing or 45-53-40 to RA 3004(d).
11[cerification, in § 253.7(b)(5)(treatment proinformation, I 40 CFR Partiporhibited was OAC 3745-59 the treatment information, I rules 3745-59	icluding the possibility of a 16 (i): I certify under benary of cess used to support this to believe that the treatment process. Suppart 0 and all applies ste. I am aware that there a 1-07-8-5-(a): I certify under process used to support the believe that the treatment process to 3745-59-44 of the 440 to 3745-59-44 of th	he and impresentment, intents to law that I have personally extendification and that, based or rocess has been operated and caple prohibitions set forth in 4 tre-significant penalties for sub-enaity of law that I have person is certification and that, based rocess has been operated and diministrative Code and all application and that application and the person operated and diministrative Code and all applications.	amined and am familiar with the my inquiry of those individual maintained properly so as to confict the section of the section of the section of the section of the section ally examined and am familiar whom my inquiry of those individual maintained properly so as to contain that there are significant in the section of t	te treatment technology and oper is immediately responsible for observing with the performance levels a 3004(d) without impermissible during the possibility of line and immediately responsible for openply with the performance levels and 3745-59-32 of the Administrational persister of the performance levels are penalties for submitting a false	ration of the blaining this is specified in illution of the approximent operation of obtaining this is specified in this code or certification.
	including the	possibility of fine and imp	nsonment. <i>(Treatment nas De</i>	nen periorities, waste meets o	ulation i Macroencaesulation	[] Seafing
12[15 268.7(b)(5) there are sign p [] DEAC i OAC 3745-S	(ii): I certify under penalty of initicant penalties for subminiting [] INCIN ([] FSUBS) 9-07-8-5-(b): I certify under that	ing a faise certification, including a faise certification, including s [] AMERC t[] IMERC penaity of law that the waste hat there are significant penaiti	g the possibility of fine and impr u []RLEAD v []RTHRM is been treated in accordance y es for submitting a false carti	isonment. [Mark applicable sta	ndard o-wri
13 (imprisonmen 7)(263.7(a)	t. (Wasle has been freated of the little of	ty that I have personally examination wastes not subject to regular	ned and am familiar with the wa tion under 40 CFR part 261. I a	iste and that the lab pack contains am aware that there are significan	s only wastes
14 [submitting a 8)(83.7(a) [false certification, including it is a certify under penalty of the certify under penalty of the certification.	the cossibility of line of imprise	nined and am familiar with the	waste through analysis and testi	ng or through
	under 40 C	of the waste and that the lab	that there are significant pen	alties for submitting a false ce	entification, including the possible	lity of fine or
94.	imprisonme:	nt, Gorganyo lab gecik;		Kaskana	a bost 1	77
Si	ignature	115/	Best du	or should be the thin mutton	Date Date in the approved	Wasie Product
Tbi Qu iba	is noiificationic vestioniustra for i at appropriate no	mijīcājion v providedījor vo be ivastvaream rejerencal ab bilfivations and/or certificatio	our convenience as an example rove by Masse Stream Identification on accompany each shipment of by verify notification/certification	and is ousel of the light of the zener on Number (WSID). It is the zener waste as required. ESI makes no i requirements for this waste stream	provided to Est in the approved rator's respondibility under/10 CFR. representations as to the accuracy of the	208.7 to ensure of this example.





COMMONWEALTH OF MASSACHUSELIS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF HAZARDOUS WASTE**

One Winter Street Boston, Massachusetts 02108

=

	se print or type. (Form designed for use on elite (12-pitch) typewriter.)					
Т	M. September 1 Generator US EPA ID No.	lanifest	2. Pag	e 1 Information	in the shade	d areas
ll	Doci	400 M	of 4	is not require	ed by Federa	law.
<u> </u>	WASTE WANTEST N. D.		PASS COL	é Manifest Docum	ent Number	CHENTAL C
	3. Generator's Name and Mailing Address	1	A Star	H374867		
	Beatric Co. c/o Retec				-24 A 1986	
	9 Pond Lane, Concord, MA 01742		B. Stat	e Gen. ID		
{				san	P	
! !	4. Generator's Phone (508) 371–1422		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	e Trans. ID		news to the
1 1	5. Transporter 1 Company Name 6. US EPA ID Number		A Print and the re-		2767	O MA
ļ ļ	Franklin Environmental Services Inc. M A D D B A B H A	1 3 6			7-1681V	*OSITION
	7. Transporter 2 Company Name 8. US EPA ID Number		D. Tra	nsporter's Phone (508 38	4-6151
	7. Transporter 2 Company Name	1 1 1	E. Sta	te Trans. ID	\$1772 MARK	
۱ ۱		1-1-1-			12197	1
1 1	9. Designated Facility Name and Site Address 10. US EPA ID Number					
	Envirosafe Services of Ohio			nsporter's Phone (HALL CANAGES
	876 Otter Creek Road, P.O. Box 16751		₃G. Sta	te Facility's ID:	Not Re	quired 💢 💥
1		706	H. Fac	ility's Phone (41	9 255-	5100
1 1	Oregon, OH 43616-7571 DHD 0 4 5 2 4 3	12. Cont		13.	14.	22212
	Shinning Name Hazard Class and ID Number	12. Cont	allers	Total	Unit	Waste No.
1	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	No.	Type	Quantity	Wt/Vol	
'						25-12-20
1	<pre>a Hazardous Waste Solid, n.o.s.</pre>		1 1		OH)	D 0 0 8
1	9. NA3077. PG III(marine pollutant)	L		~~~=	PRU.	
İ	<pre>a Hazardous Waste Solid, n.o.s. 9, NA3077, PG III(marine pollutant) RQ(Chlordane, D009, D020), (ERG#31)</pre>	DOI	b r	0010115	A Y	0.0.2.0
1	$\mathcal{A}(t)$					
G	b	1				
E			1. 1	1		
N		لنليا				AG 30 38 8
GENERATOR						Mark Comment
R	C.		ì			
17		, s	i , (1		Land in
Ιò			┞┈┸╌			
R	d.	1	1			1-6-51 3
1	,	ì	1	•	·	CAST AS
1		l 1 1		1 1 1 1		246/16/1
ļ	V. 27742 (1.2.) 1.0.76742	**: 02 - 70 ×00 (4)	V 125	nojing Codes for W	actoc licted	Ahove
1	JI: Additional Descriptions for Materials Listed Above (include physical state and hazard code.)		K. Ha	ngong Codes for W	asies Listeu	
	hazardous contaminated soil			10 10	l a bioxida	I was I down
1	a. 15698-001 c.	STATE OF STREET	4	Cct-	3 (43%)	1 9 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
1				6011 h		
1			900		d 3.7	
	5 d.	enten - talenten -		TANK ST.		
	15. Special Handling Instructions and Additional Information					,
			110	CIVID	~)	> > t
		7	7 7	YOD	00	271
	EMERGENCY CONTACT: INFOTRAC 800-535-5053		•			
	16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately de proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for	or transport by	nighway	✓		
	according to applicable international and national government regulations.					
	· · · · · · · · · · · · · · · · · · ·	e generated to	he deares	I have determined to	be economical	ly practicable
	If I am a large quantity generator. I certify that I have a program in place to reduce the volume and toxicity of wast and that I have selected the practicable method of treatment, storage, or disposal currently available to me which and that I have selected the practicable method of treatment, storage, or disposal currently available to me which	minimizes the	present an	d future threat to hum	an health and	the environ-
1	and that I have selected the practicable method of treatment, storage, or disposal currently available to me which ment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and	select the best	waste ma	enagement method tha	st is available to	o me ono mati
1	ment, OR, it i am a small qualitity generator, make ment a small qualitity generator, make ment, or a small qualitity generator.	,				Date
		1 1		/	Mont	h Day Yea
	Printed/Typed Name Signature		/	g.	Lie	11/196
-	Xan / /AQUIDAM (Heal to Brooke) Line	X agen			121	<u> </u>
1-2	17. Transporter 1 Acknowledgement of Receipt of Materials					Date
A	Signature)	<u> </u>	,		Mont	h Day Yea
A	Printed/Typed Name) Signature	/ ,	4	-	b 19	ひんぴん
1 '2	I hill P (KOVOS)	work				Date
5	18. Transporter 2 Acknowledgement of Receipt of Materials					
P					Mont	h Day Yea
l R	Printed/Typed Name Signature					
R	Printed/Typed Name					
P F T	Printed/Typed Name Signature					
E P	Printed/Typed Name 19. Discrepancy Indication Space					
F	Printed/Typed Name 19. Discrepancy Indication Space					
F	19. Discrepancy Indication Space					
F	Printed/Typed Name 19. Discrepancy Indication Space			in large 10		<u>.</u>
F	Printed/Typed Name 19. Discrepancy Indication Space	fest except a	s noted	in Item 19.		
F	19. Discrepancy Indication Space	fest except a	s noted	in Item 19.		Date
F	19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this mani	fest except a	s noted	in Item 19.	Mon	
F AC	19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this mani	fest except a	s noted	in Item 19.	Moni 17 F	
F A C	19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this mani	fest except a	s noted	in Item 19.	Mont D 9	

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

:COPY>3:

FACILITY MAILS TO GENERATOR

ESOI/Envirosafe Services of Ohio, Inc.
Associated Chemical and Environmental Services, Inc.
876 Otter Creek Rd., P.O. Box 167571

USEPA ID 5HD 045243706 Ohio EPA 03-48-0092

Oregon, Ohio 43616-7571 CERTIFICATE OF DISPOSAL PART A — Generator Information Generator Name _Generator USEPA ID# 0000 Z. Manifest Document No. PART B — Waste Disposal Information **Product Code Disposal Date** Disposal Method Container Number Mo. Day Year No. Type Weight 22,27 Disposal Method = D081-Landfill; D082-Landfarm; T04-Treatment Container Types = DR-Drum; TR-Truck; CT-Cargo Tanker; VT-Vacuum Tanker; RO-Rolloff I certify receipt and disposal of the above identified wastes at this facility. I certify that the above described wastes were disposed according to all applicable state & federal permits and requirements imposed by the generator. SIGNATURE_

SCALE MASTER

医静脉脉 化邻氯化物 网络科斯特斯斯

DISTRIBUTION OF COPIES WHITE — Office CANARY — Generator PINK — EPA

TITLE .

ESOI C/D 56-1650-3P Form 101

		FEDERAL CHIO LAND DISPOSAL	RESTRICTION NOTIFICAT	TION AND CERTIFICATION FO)AM	(4)
. TC	OR NAME	Beatrice Company		wsid	.5050 002	
-1.D.	NO. <u>MP61</u>	79355523	Marile	est Doc. No. MAH 37	4867	
.TE DF	SCRIPTION _	Contaminated Soil	EPA H	W *'s D008		
-8.2 Cat	tecory: E [X] N	ON-WASTEWATER FI WASTEW	ATER GIR Subdivision:	IC TOXIC ONLY-ISE		 -
		[]40 CFR 252.41(z) Y []40 CFR 26 OAC 3745-59-41-A OAC 3745			02 [] CWA [] NCC-	-CWA
The genera	ator named abo	ove hereby provides the following NOT	TIFICATION as required by	40 CFR 258.71 CAC 3745-594	37 that the waste material	being
shipped un	ider the acove	Manifest Occument Number is subject	lo lang cisposal restrictions.	ent standards in 40 CFR 258 S	Subpart 0 / CAC 3745-59 a	zndor
exce	secs the accirc	table prohibition revers in 40 Crim 25d.	751 CVC 7143-34-35 Of UK	Stry & agg-(a) at a tital tion of		
B[] § 26	ia.7(a)(2) / OA liczble prchibiti	C 3745-59-07-A-2: The waste <u>meets</u> ion levels in ±0 CFR 253.32 ¹ OAC 374	and transfer of	Salitoning city of this treatment		
C[] § 2	58.7(a)(3) / O/	AC 3745-59-07-A-3: The waste is sui	piect to a 9 25d granted pe			
The canal	COLOR DOCUMENT	con or a Nation was variance under 40 additional treatment. The Petition, Exer bove hereby provides the following N	UTIFICATION ACOOF CENT	HEICHTION 43 IEACHER DA 40	CFR 268 / CAC 3745-59	that is
applicable	ic the waste m	naterial ceing shicced under the above	Manues, Docem Namber	1C 3715.59-01 unti	1	
			ED CE Experience Other Ex	tensionNariance as Detailed in	40 CFR 268.1:3745-59-01;	: :maled
5[] Thu	s waste is exer	mpt from land discussi restrictions until	to attract standards Patition	e applicable diterrate standard	2 23(60)(3)(66): 4 pedilot: 5	
					1/3/(v) Debris/ List contam	iinants
	hin or to transm	ent ser 40 CFR 253 45(b) or circle on Silver 1 Nickel [] Antimony [] Bo	1200 1 AUSSUIC 1 1000		MOIN CC25 MONOC	-1 <i>y</i>
		enalty of law that the decris has been				ere are
sig	Inificant penalti	ies for submitting a talsa carilloation, in TON INC. I DESTAUCTION (Income	ctuding the possibility of line whod(s) of treatment):	and imprisonment. /9200.7[0][2	z/(m) maye nor.=.zz.j. mai	<u>x 11921</u> .
0116	200 2161/61/61	I combined at exceptly of law that I ha	we personally examined an	d am familiar with the treatmen	it technology and operation	n of the
:		se used to support this certification at leve that the nonwastawatar organic of	ncidican's have been ileale:	t av incheralien in utilis obetale	ed itt accordet de with 40 di	rarai
	* 4 · · · · · · · · · · · · · · · · · ·	or by 40 CFR part 255, subpart 0, or by 40 CFR part 255, subpart 0, or deliver the non-	/ TV 6000USEON IN 1110USE	annunen unus ceerannu in acc	CICALICE WILL GLORICADIC IS	
CC	enstituents 1 :	am aware that there are significant of	naities ior suomitting a fais	e centication, incidend me be	ssibility of fine and imprise	coment
77.	ania contina doc.	od faith" detection intel afternative for N I cently under penalty of law that I per	ひひ シガラ シロ・アベ ノライ ミチバタネ	iltieni siairuaiusi		
٠	anuiadaa ai the	n wacin in company this cardication that	the waste complies with the	HESTLIEU ZIGUETICS ZORCHER	III +0 CEN FEIL 200 OUUUU	, C alki
ai	l applicable pr	onibitions set forth in 40 CFR 258.32	or RCAA section 3004(d).	nomanion set trail in geneve that the control is the control including the control inclu	of a fine and imprisonment	L and
Ω	13 C 2745, 28.0°	7. 1. 2./h\\ =ae\\ \ \ \ \ -ae \ \ \ \	inal I rescondity have exami	neg zna zm izminz: wivi ine wa	1215 IUIONOU 9U = 1212 9110 16	ES ALIVE CH
(h	rough knowled	dge of the waste to support this certified	cation that the wasta compi	e 3745-59-32 of the Administrat	ive Code or section RCRA	3004(d).
,	madiana charter	in intermedical in the tradic to a lack	******** 300 000010 300	aware mai inere are significa	ill deligites ici accimitiniq	3 10136
44 () (~~~ ~(~\\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:	luding the possibility of a fine and impri to certify under penalty of law that I fine	aue perconsilu evamineri ar	IC AIR IAERIIAE WILL BLE BEAUTIE		,,, 4, 6~
		an include a common term condition to the	ed that insided on my incui	Ly of those inclyionals runned	MIGIA LEPPOLISIE: F 101 00100	
4	A CED Baards	elieve that the treatment process has been suppart D and all applicable pronib	AMARC CALLADA IN ALL LIER ZO	u 35 ol HCUM 26511611 2664161	Will Will Hilliam 1111777 File Andin	G 1 G G G
_		_ 1	· Papadies ios silbulidad a l	aise cennication, il.C.C.Cund ne	DOSSIDILIA OF THE THE WINDOW	~~ = · ~ · · · · · · · · · · · · · · · ·
•1	hadrasemant a	e. I am aware that there are significal process used to support this certification	n and that inased on my ico	IGUA CL IDOZE IHOIAIGUSIS IIIII I EL	hatera respectisiene ion opran	41.19 2.20
· .		elieve that the treatment process has been to to 3745-59-44 of the Administrative	CORPORATION AND TRAINIBING	RESTRONATIVE SOLAS TO CERTICIA MILIT	i die belicilitatice ievers so	
	CO Coction	ממשים ביו להוא משינים היים לוויים מוליים מוליים	ian wasie. I am awate ina	i inele ale zicullicani penanie:	, ior administrate and	mice and in
:		and billion of the and impressment of	Treatment has been cerior	meas wasie meeis Calioniia.	ייונייוניים וואמטטעב פבבע	3. / ULI ,
		rion or \$258.45 Table 1 IMMOBILIZA (): I certify under penalty of law that the				
t	mere are signil	icant penalties for submitting a false of	enlication, including the poss		DRGS ()	و المساوعات
	DAC 3745-594	of [] INCIN (] F3065 s [] AND 07-8-5-(b): I certify under penalty of lar	w that the waste has been to	eated in accordance with the re	quirements of rule 3745-59	→2 of the I fine and
	Administrative	Code. I am aware that there are	MAN CER 258 42(4) Technol	locyl	,	•
13()	§ 268.7(a)(7): 1	I certify under penalty of law that I have pendix IV to pan 258 or solic wastes on the certification, including the possibility	e personally examined and a consider to regulation under	m familiar with the waste did it 40 CFR part 261. I am aware	ial the lab pack contains on that there are significant pe	naties for
14[]	§ 268.7(a)(8):	I certify under penalty of law that I ha	ve betsoughly examined and	od in Angendix V to dari 268 or		
	under 40 CFF	ne waste and that the lab pack collidar R part 251. I am aware that there a Companic lab pack!	re significant penalties for	anomitting a raise certification	, including the possibility	
94-2	- : //	11 80 11 140	f for Bes	fore Date	Sert (1	289
Signs This m	ature //	incation a provided job cour convented was in a reference a doore by wase	ice us an crample, and is ou	sea on the information provided	To ca in the approved Was	se croduct Tio crossre
					tions as to the accuracy of th	is z am ple,
and re	commends that	the generator independently verify notifi	cation/certification requiremen	नाड उठन रागड प्रतास प्रास्त्रमा.		
	•					•
						•





COMMUNIVERETH OF MASSACHOSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE

One Winter Street

FACILII TIAILO IO GENEKAIOK

Boston, Massachusetts 02108 d for use on elite (12-pitch) typewriter.)

Hease print of type. If offindusignos to document	r US EPA ID No. Ma	anifest	2. Page 1	Information	in the shaded areas
I DIVIEDRIVI NAZANDOOS	Docu	ment No.	of 1		ed by Federal law.
3 Generator's Name and Mailing Address	<u> </u>		A: State N	lanifest Docum 437487	ent Number
Beatric Co. c/o Retec 9 Pond Lane, Concord, MA 01742	•		B. State G		
4. Generator's Phone (508) 371-1422	•			re san	ne ·
1 Common Name	6. US EPA ID Number		.C.State Ti		
Franklin Environmental Services In	IC. M A D 10 18 14 18 11 14	11 13 16			31/17/8 MA
7. Transporter 2 Company Name	8. US EPA ID Number	į	D. Transp E. State T	Official visionie	508 384-6151
		1_1_	WATER THE		· 1 (- 1 × 1 · 1 · 2 ·
9. Designated Facility Name and Site Address	10. US EPA ID Number		1. 1977 BAC WAR 1. 1957 B	orter' ione (Service and American Service S
Envirosafe Services of Ohio	7E 4				Not Required
875 Otter Creek Road, P.O. Box 167	0 H D 10 14 15 12 14 13	17 10 16		's Phone (41	9 255-5100
Oregon, OH 43616-7571		12. Cont		13.	14. I. Unit Waste No.
11. US DOT Description (Including Proper Shipping Name, Haz.	rard Class, and iD Number)	No.	Туре	Total Quantity	Wt/Vol
Hannedous Masta Solid n o s					D/0 0/8
 Hazardous Waste Solid, n.o.s. NA3077, PG III(marine pollutation RQ(Chlordane, D008, D020), (ERG) 	ant)	h			M
RQ(Chlordane, DOOB, DO20), (ERG/	//31)	POI	рпр	ODNE	Y D020
b.				•	
E			1.1	1 1 1 1	
V		1	}}	<u></u>	\$ X 32
R c.				•	
	•				
D					
G .					
			L Hand	iou Codes for V	astes Listed Above
J. Additional Descriptions for Materials Listed Above finclude hazardous contaminated soil	physical state and hazard code.)	Long Late 1 1/2 1/24	R. Handi		1997 2 866 2 4
i 15698-001 c.	W. J. W.		a.		CC CONTROL OF THE CON
		0.0		To: 11/	$MA \supset XL$
d.			b.\	XXY	THE WAY
515. Special Handling Instructions and Additional Information					1 111 - 5
	\rightarrow \rightarrow \rightarrow \rightarrow	(15			46/XX
EMERGENCY CONTACT: INFOTRAC 800-5 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of	takin pensionment are fully and accurately Ge	scribed above	by		. 4700
	d, and are in an respects in proper	or transport by	highway		
according to applicable international and national government regula	ations.		ana dagraga libi	ave determined to	be economically practicable
If I am a large quantity generator, I certify that I have a program in pla and that I have selected the practicable method of treatment, storage ment; OR, if I am a small quantity generator, I have made a good faith	e, or disposal currently available to me which	minimizes the	present and fu	iture threat to hun inment method th	nan health and the environ- at is available to me and that I
ment; OR, if I am a small quantity generator, I have made a good faith can afford.	a effort to minimale my waste generation and				Date
	Signatu <u>r</u> e ,	1			Month Day Yea
Printed/Typed Name		// 、	/		<u>hzhzz</u>
11. Transporter Acknowledgement of Receipt of Materi	ials Jet 1. //C.	2-1			Date
A Printed/Typed Name)	Signature	\mathcal{J}	1		Month Day Yea
\$ HID IRONST		Kron	200		Date
18. Transporte 2 Acknowledgement of Receipt of Materi					Month Day Yea
					1 1 1
T Printed/Typed Name	Signature				<u> </u>
E R	Signature	In last	,		
F DRIVER CHADGE ONLY Dans	Signature	12/94	, ,		
F DRIVER CHADGE ONLY Dans	Signature	12/94	, 		
F DRIVER CHANGE ONLY Dans	iel RCloak 91		\rightarrow	em 19.	
F DRIVER CHANGE ONLY AND ACC 1 20. Facility Owner or Operator: Certification of receipt of haz	iel RCloak 91		\rightarrow	em 19.	Date
F DRIVER CHANGE ONLY Dans	iel RCloak 91		\rightarrow	e/n 19)	Date Month Day Yes

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

ESOI/Envirosafe Services of Ohio, Inc. Associated Chemical and Environmental Services, Inc. 876 Otter Creek Rd., P.O. Box 167571 Oregon, Ohio 43616-7571

USEPA ID 9H9-045243706 Ohio EPA 03-48-0092

Crogon, Cino 40010 7071	CERTIFICATE OF DISPOSAL	
PART A — Generator Information	OLIVINIONIE OF DIOLOGAE	MP 6/79355523
Generator Name Beatric	<u>Ca</u>	Generator USEPA ID#

PART B — Waste Disposal Information

Manifest Document No.

Product Code Number	Disposal Date Mo. Day Year	Disposal	Method	Container No. Type	Weight
15698 001	9113194	DSV		1 TR	23,057

Disposal Method = D081-Landfill; D082-Landfarm; T04-Treatment

Container Types = DR-Drum; TR-Truck; CT-Cargo Tanker; VT-Vacuum Tanker; RO-Rolloff

I certify receipt and disposal of the above identified wastes at this facility. I certify that the above described wastes were disposed according to all

applicable state & federal permits and requirements imposed by the generator.

SIGNATURE ___

SCALE MASTER

DISTRIBUTION OF COPIES WHITE - Office CANARY - Generator PINK - EPA

ESOI C/D 56-1650-3P Form 101

FEDERAL CHIO LAND DISPOSAL HEST	wsio_15698-001
TOR NAME Beacrice Company	WSID 22/(772)
I.D. NO. <u>MP6179355523</u>	Marifest Doc. No. MANY 374870
TEDESCRIPTION Contaminated Soil	EPA HW 4's D008
68.2 Category: E [X] NON-WASTEWATER FI WASTEWATER	GK Subdivision: TC Toxic Only-Lead
reatment Std Ref(s): X [] 40 CFR 252.41(2) Y [] 40 CFR 268.42(2	1) Z[]40 CFR 263.43(a)
	TION as required by 40 CFR 258.7 / CAC 3745-59-07 that the waste material being
shipped under the acove Manifest Document Number is subject to land	
exceeds the applicable prohibition levels in 40 Cara 250.327 C	AC 3745-59-32 or RCRA § 3004(d) and may not be land disposed until it meats the
standards referenced above or on the anached sheet.	policipite transport standards in 40 CFR 268 Subpart D / OAC 3745-59, and/or the
applicable probibition levels in 40 Cr.H 758.32 'OAC 3/43-29-3	S. HCW & 2004(a) (Camerina car) at the meaning are
C[] 6 253.7(a)(3) OAC 3745-53-07-A-3; The waste is subject to	o a § 268 granted petition, § 268.5 / OAC 3745-59-05 exemption, a § 268.6 / OAC 568. Subspan C or Variance under rules CAC 3745-59-30 to 3745-59-33 and may be land
The appearance names shows becalty herefore the inflowing NUTIES	TATION AND CENTRICATION STREET
applicable to the waste material being shipped tirder the above manue	2004 104 104C 274S-SQ-01 until
4[] This waste is exempt from land discosal militaions per 40 CFR	Francisco of Other Extension/Variance as Detailed in 40 CFR 268.1.3745-59-01;
5 [] This waste is exempt from land discosal restrictions until pursuant to 40 CFR 268.44 / OAC 37.45-59-44 / Alternate treatment	per the applicable alternate standards established in a petition granted
pursuant to 40 CFR 268.44 / OAC 37-45-59-44 /Aitemate treatm	ent standards Petition)
	en standards 7 ends 7 ends 7 ends 7 ends 7 ends 7 ends 6 e
() Solonium () Silver () Nickel () Antimony () Berditin	[] Thallium [] Zinc [] Cyanide-A [] Cyanide-T [] OTHER:
7[] I certify under penalty of law that the decils has been treated	in accordance with the requirements of 40 CFR 268.45. I am aware that there are
significant penalties for submitting a raise certification, including m [] DESTRUCTION (Identify method)	the bossignity of life and imprisonment /35001/6/15/(m) was ever week.
and the second s	reseally avaigned and am tamular with the treatment technology E.T.C. Coefallon of the
264; subpart O, or by 40 CFR part 255, subpart O, or by 60	tous or asylans of shorts character and search and search and stores of any search
constituents. I am aware that there are significant negatives	is a submitting a taise certification, inclicing the possibility of the end impriser there
10 [] § 258.7(a)(2)(ii): I certify under penalty of law that I personally	acte complies with the treatment standards specified in 40 CFR Part 258 Subpart D and
all designable exemplations cat test a 10 feet 2nd (2 of 6)	Profitting Author I relieve first the infolliation i adomities in the account
	remision a miss confication, including the bosolomit of a fine bio in chaomiche
O 1 C 27 (2 22 07) 0 (b) (1 +4++5) (1-4+2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	cersonally have examined and am familiar with the waste through analysis and testing or that the waste compiles with the treatment standards specified in rules 3745-59-40 to
	reners for team in this (VAD-DA-VA) in the Applications of the or zeroch tretty down
and it and a substitution that appearingly at a time and impressing a	nt. (Meets Calif. and §258 Subpart D standards in present form who additional treatment) erschally examined and am familiar with the treatment technology and operation of the present the property of the pro
AN CER DEA SER CURATA DI SAR SIL SCOLOSSIA SYSPIDINOS S	set tonh in 40 CFR 258.32 or RCRA section 3004(d) without impermissible dilution of the titles for submitting a false certification, including the possibility of line and imprisonment.
0 • 0 0 7 • 4 00 07 0 0 (a)• 1 • • 400 • • • • • • • • • • • • • • • •	and appropriate and and carried militude destination recommends and appropriate
the treasure are read to concert the coccinestics and	1931 PSEED UD MA MCCRIA CL MOZE MONACONO MINIMERINALEN LESBONISIONE IN ARRONALIZATA
The second secon	cerated and maintained property so as to comply with the performance levels specified in and all applicable prohibitions set forth in rule 3745-59-32 of the Administrative Code or and all applicable prohibitions set forth in rule 3745-69-32 of the Administrative Code or
	tela i tam awate mai mere are significant behanies for addititudio e tobe ecimication
includes the secondition of the analymprocessor of 1702/0	neri rae reen nenomben wasie meels Caliumia. 9230 Juuren 6 Juliusius 1947
12 [] § 268.7(b)(5)(ii): I cently uncer penalty of law that the waste	ion including the possibility of fine and imprisonment. [Mark applicable standard ow:]
of 1DFACT of 1 NCIN of 1 FSUBS of 1 AMERC t	[IMERC u [] RLEAD v [] RTHRM w [] RORGS [] I have been treated in accordance with the requirements of rule 3/45-59-22 of the
DAC 3745-59-07-8-5-(b): I certify under penalty of law that	the waste has been treated in accordance with the requirements of rule 3745-59-42 of the cant cenalties for submitting a false certification, including the possibility of fine and cartification.
131 16 268.7(a)(7): I certify under penalty of law that I have person	on ally examined and am lamiliar with the waste and that the lab pack contains only wastes and the lab pack contains only wastes are to contain under 40 CFR part 261. I am aware that there are significant penalties for
specified in Appendix IV to pan 200 or soil wastes not study	on as impresement (Occanometallic laboacxi
submitting a false certification, including the cossibility of fir	sonally examined and am lamiliar with the waste through analysis and testing or through organic waste specified in Appendix V to part 268 or solid wastes not subject to regulation
knowledge of the waste and that the lab pack contains only	schally examined and all tarihing with the part 258 or solid wastes not subject to regulation organic waste specified in Appendix V to part 258 or solid wastes not subject to regulation organic waste specified in Appendix V to part 258 or solid wastes not subject to regulation.
under 40 CFR part/251. Nam aware in intere are sign	organic waste specified in Appendix of Specification, including the possibility of fine or
imprisonment (Offanic/acces) 94-2	" l
	- BATTLE Date PROPERTY OF THE PROPERTY OF THE PROPERTY WASTE Product
This notificationic entification is procided for your convenience as Ouestoniairs for the waste stream referenced acove by Vase Stream	an example, and is opsed on the information provided to the in the appropried Vaste Product I Identification Number (WSID). It is the generator's responsibility under 40 CFR 268; to ensure shipment of waste as required. ESI makes no representations as to the accuracy of this example.
and recommends that the generator independently verify notification	Elymonton region emones years and a second

;

GROUPS G AND H
NON-HAZARDOUS SLUDGE



HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

No. 015113

Section I	GENERATOR (Generator completes all of Sec	ction I)	•
Generator Name:	BEATRICE COMPANY	b. Generating Location:	BEATRICE COMP	PANY
Address:	206 SOUTH LASALLE STREET	d. Address:	346 SALEM ST R	EAR
, 100, 000,	CHICAGO, IL 30604		WOBURN, MA 01	801
Phone No.:	(508) 371-1422	f. Phone No.:	(508) 371-1422	_
owner of the gene Owner's Name:	rating facility differs from the generator, provide:	h. Owner's Phone No.:	·	
BFI WASTE CODE	MA/ 855/ 950803/ 215631		Containers	<u>TYPE</u> DM - METAL DRUM
escription of Waste	CHESTER FOR HIS CHARLES FOR HELD CONTROL OF THE	k. Quantity U	nits No. TYPE	DP - PLASTIC DRUM B - BAG
:	CHLORIDANE CONTAMINATION FREE ER6#31		13 1 T	BA - 6 MIL. PLASTIC BA or WRAP T - TRUCK
ot a bazaratorus wa	the above named material does not contain free liquid as asse as defined by 40 GFR Part 261 or ant applicable state addition for transportation according to applicable regulation gent Name Signature	e law, has been properly describe	or any applicable state law, is ded, classified and packaged, Shipment Date	O - OTHER <u>UNITS</u> P - POUNDS Y - YARDS M³ - CUBIC METERS Y³ - CUBIC YARDS O - OTHER
Section II	TRANSPORTER (Genera	tor completes a-d; Transporte	er i complete e-g)	•
Name:	FRANKLIN ENVIRONMENTAL SER		(508) 384-5151	e. Truck No.:
Name: Address:	INDUSTRIAL ROAD	f. Vehicle Licens	<u> </u>	e. Huck No.:
Address.	WRENTHAM, MA	Acknowledgen	nent of Receipt of Materials.	
Driver Name/Title:	Charles Malley	g. Driver Signature	i jer	Shipment Da
Section III		r completes a-d; destination s	ite completes e-f)	
Site Name:	BFI MAHONING LANDFILL	c. Phone No.:	(216) 536-8013	
Physical Address	8100 S. STATE LINE ROAD	d. Mailing Address:	PO BOX 5240	-
•	LOWELLVILLE, OH 44436		POLAND OH 446	14
Discrepancy Indica				
I hereby certify that	t the above named has been accepted and to the best of my	knowledge the foregoing is true an	d accurate.	•
ame of Authorized A	gent Signature			Receipt Date
Section IV	ASBESTOS (Generator	r completes a-d,f,g, Operator*	completes e)	
Operator's* Name:		b. Operator's* Phone No.:		
Operator's* Address	;			
operators Address	ctions and additional information:			
•		· · · · · · · · · · · · · · · · · · ·	porihad about by proper chipping of	ame and are classified, pack
. Special Handling Instru PERATOR'S CER	TIFICATION: I hereby declare that the contents of this consig and are in all respects in proper condition for transport by high			ons.
Special Handling Instru PERATOR'S CER'	TIFICATION: I hereby declare that the contents of this consignand are in all respects in proper condition for transport by high	phway according to applicable inter		
Special Handling Instru PERATOR'S CER' arked, and labeled,	TIFICATION: I hereby declare that the contents of this consignand are in all respects in proper condition for transport by high Print/Type			ons. Date

GENERATOR RETAIN



NUN-HAZARDUUS SPECIAL WASTE & ASBESTOS MANIFI

015114

Section I	GENERATOR	(Generator completes all of Sect	ion I)	
a. Generator Name:	BEATRICE COMPANY		BEATRICE CON	#PANY
c. Address:	208 SOUTH LASALLE STREET	b. Generating Location:	246 SALEM ST	
	CHICAGO, IL 60604	d. Address:	WOBURN, MA	
e. Phone No.:	(508) 371-1422	f. Phone No.:	(508) 371-1422	
If owner of the gener g. Owner's Name:	ating facility differs from the generator, provide:	h. Owner's Phone No.:		· · · · · · · · · · · · · · · · · · ·
i. BFI WASTE CODE	MA/ 855/ 950803/ 215631	•	Container	TYPE
. Description of Waste:	CHRISTO, FO III Obering Published Completed S	k. Quantity Unit	Containers ts No. TYPE	DM - METAL DRUM DP - PLASTIC DRUM R - BAG
	Management (2001) Heppidases Carenes (19) Offices Design (2014) MINAGE Carenes (19)		10. TIPE	DA - 6 MIL. PLASTIC B OR WRAP T - TRUCK
I hereby certify that t	the above named material does not contain free liquid as	s defined by 40 CFR Part 260.10 or	any applicable state law, is	O - OTHER
and is in proper con	iste as defined by 40 CFR Part 261 or ant applicable stated indition for transportation according to applicable regulation	te law, has been properly described ons	, classified and packaged,	UNITS P - POUNDS Y - YARDS
Senerator Authorized Ac	gent Name / Stonature	1 feet	_ FH654	M ³ - CUBIC METERS Y ³ - CUBIC YARDS
			Shipment Date	O - OTHER
Section II		ator completes a-d; Transporter I	complete e-g)	•
a. Name:	FRANKLIN ENVIRONMENTAL SEF	d. Phone No.:	(508) 384-6151	e. Truck No.:
o. Address:	INDUSTRIAL ROAD	f. Vehicle License N	No./State: 1/31/20	Mc
•	WRENTHAM, MA		nt of Necelpt of Materials.	-
:. Driver Name/Title:	Print/Type Print/Type	g. Driver Signature	1 MPAON /	<u> </u>
Section III	DESTINATION (Generato	r completes a-d; destination site	completes e-f)	Shipment D
. Site Name:	BFI MAHONING LANDFILL	c. Phone No.:	(216) 536-8013	
. Physical Address:_	8100 S STATE LINE ROAD	d. Mailing Address:	PO BOX 5240	
_	LOWELLVILLE, OH 14436	o. Maining Address	POLAND OH 44	514
. Discrepancy Indication	on Space:			
I hereby certify that the	he above named has been accepted and to the best of my	knowledge the foregoing is true and a	ccurate.	
Name of Authorized Age				
	ent Signature			Receipt Date
Section IV	ASBESTOS (Generator	completes a-d,f,g, Operator* cor	mpletes e)	
Operator's* Name: _		b. Operator's* Phone No.:		
Operator's* Address:_				
Special Handling Instruction	ons and additional information:			
PERATOR'S CERTIF	FICATION: I hereby declare that the contents of this consign nd are in all respects in proper condition for transport by hig	nment are fully and accurately describ	ed above by proper shipping r	name and are classified, pack
Inerator's* Name & Title	rint/Type	<u> </u>		· ·
Pr lame and Address f Responsible Agency:		Operator's* Signature		Date



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFES

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II, and III.

No. 015115

a. Generator Name: C. Address: C. Address: C. Address: C. HICAGO, IL 60604 C. HORAGO, IL	Section I			erator completes all of Sections I.		生的研究。4.20世纪年代,中国日本
C. Address: 266 SQLTH LASALLE STREET C. HICAGO, IL. 60604 S. (508) 371-1422 E. Phone No.: (508) 371-1422 E. Phone No	a. Generator Name:	BEATRICE COMPANY		· ·	DEATHION	MANU
CHICAGO, IL 60604 PNON No.: (5DB) 371-1422 It owner of the generating facility differs from the generator, provide: It owners of the generating facility differs from the generator, provide: It owners of the generating facility differs from the generator, provide: It owners of the generating facility differs from the generator, provide: It owners of the generating facility differs from the generator, provide: It owners of Name: It own	c. Address:	208 SOUTH LASALLE	STREET	·	·	
Phone No.: (508) 371-1422 It owner of the generating facility differs from the generator, provide: It owner of the generating facility differs from the generator, provide: It owner of the generating facility differs from the generator, provide: It owner of the generating facility differs from the generator, provide: It owner of the generating facility differs from the generator, provide: It owner of the generating facility differs from the generator, provide: It owner of the generating facility differs from the generator, provide: It owner of the generating facility differs from the generator, provided as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper configine to ruping-ordinant outcomes of applicable regulations. In owner of the above named material does not contain free liquid as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged. In owner of the above named material does not contain free liquid as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged. In owner of the above named material does not contain free liquid as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged. In owner of the above named material does not contain free liquid as defined by 40 CFR Part 261 or any applicable state law, is a local law. In owner and of the applicable state law, has been properly described and the law. In owner and the applicable state law, is a local law. In owner and law.		CHICAGO, IL 60604	- i	d. Address:	· · · · · · · · · · · · · · · · · · ·	
g. Owner's Name: i. BRI WASTE CODE MAY 65-51 \$50.803 (2156.31 I. Description of Waster Wildlife State Base (1986.31) I. Description of Waster Was	e. Phone No.:		:	-		1001
LBRIWASTE CODE ### A 55-31 55-053 2 15-631 Containers If owner of the gener g. Owner's Name:	ating facility differs from the generator	provide:		(000) 011-1422		
Description of Western Technologies Section Less Containes Contain	i. BFI WASTE CODE	MA/ 855/ 950803/ 2156:	31	_ n. Owner's Phone No.: .		. TYPE
Increby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260, 10 or any applicable state law, is not a hozordous waste as defined by 40 CFR Part 261 or aft applicable state law, has been properly described, dassified and packaged, and is in proper condition for transportation according to applicable state law, has been properly described, dassified and packaged, and is in proper condition for transportation according to applicable state law, has been properly described, dassified and packaged, and is in proper condition for transportation according to applicable state law, has been properly described, dassified and packaged, and is in proper condition for transportation according to applicable state law, has been properly described, dassified and packaged, and is in proper condition to the property of the property described, dassified and packaged, and is in proper condition to the property of the property described, dassified and packaged, and is in proper condition to the property described, dassified and packaged, and is in proper dashed and packaged, and is property described, dassified and packaged, and is property described, dassified and packaged, and is property described. The property described and packaged, and packaged and packaged, and packaged, and packaged and packaged, and packaged and packaged and packaged. From the property of the packaged and package	j. Description of Waste:	。 14.4 P. P. () 1 C. () 11. () 14. () 1		-		DM - METAL DRUM DP - PLASTIC DRU
Interest pertify that the above named material does not contain free liquid as defined by 40 CFR Part 280 or an applicable state law, is and selenced by 40 CFR Part 280 or an applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable state law, has been properly described, classified and packaged, and in proper condition for transportation according to applicable state law, has been properly described and packaged. Pound of the pound of the proper of the proper state of the property described and packaged. Pound of the pound of the proper of the property		THE CHILDREN CONTAINING TELES	CARMAN PRO	K. Quantity Ur	nits No. TYPE	B - BAG BA - 6 MIL. PLAST
and is in proper condition for transportation according to applicable regulations: Section II	I hereby certify that	the above named material does not co	Ontain free liquid as defin			T - TRUCK
Section II TRANSPORTER (Generator completes a-d; Transporter I complete e-g)	not a hazardous wa and is in proper con	ste as defined by 40 CFR Part 261 or dition for transportation according to a	ant applicable state law,	has been properly describe	any applicable state law, is d, classified and packaged,	UNITS
Section II TRANSPORTER (Generator completes a-d; Transporter I complete e-g) a. Name: FRANKLIN ENVIRONMENTAL SERTINERS/ITER Address: INDUSTRIAL ROAD Address: INDUSTRIAL ROAD Acknowledgement of Receipt of Materials. C. Driver Name/Title: PindType	In lavid	and Aced & to	t)	Let 1	5. 15.1	Y - YARDS
A Name: A Name: A Name: BELIMAHONING LANDFILL C. Phone No.: C. Driver Name/Title: BELIMAHONING LANDFILL C. Phone No.: C. Phone No.: BELIMAHONING LANDFILL C. Phone No.: C. Phon	Génerator Authorized Ac	gent Name	Signature		Shipment Date	! Y ³ - CUBIC YARDS
a. Name: FRANKLIN ENVIRONMENTAL SERUNESPRINK. b. Address: INDUSTRIAL ROAD WRENTHAM, MA c. Driver Name/Title: Prov/Type Section III DESTINATION (Generator completes a-d, feed) LOVELLY ILE OH 44436 Diversignature DESTINATION (Generator completes a-d, feed) LOVELLY ILE OH 44436 Diversignature DESTINATION (Generator completes a-d, feed) LOVELLY ILE OH 44436 Discrepancy indication Space. Thereby certify that the above named has been accepted and to the best of my knowledge the foregoing is true and accurate. Name of Authorized Agent Signature ASBESTOS (Generator completes a-d, feed) Destination state of the service	Section II	TRANSPO	RTER (Generator c	ompletes a-d: Transporter	Complete e-a)	
b. Address: INDUSTRIAL ROAD WRENTHAM, MA L. Vehicle Lecise No /State: // 1/2 /	a. Name:	FRANKLIN ENVIRONM	ENTAL SERTE	VSPORTER-I		· ·
c. Driver Name/Title: Print/Type	b. Address:			- a. Phone No.: \ _		e. Truck No.:
Section III DESTINATION (Generator completes a-d; destination site completes e-f) a. Site Name: BFI MAHONING LANDFILL c. Phone No.: (716) 536 5012 b. Physical Address: 5100 S. STATE LINE ROAD d. Mailing Address: PO BOX 5240 LOVELLVILLE OH 44436 POLAND OH 44514 b. Discrepancy Indication Space: Thereby certify that the above named has been accepted and to the best of my knowledge the foregoing is true and accurate. Name of Authorized Agent Signature Receipt Date Section IV ASBESTOS (Generator completes a-d.f.g. Operator's completes e) Deparator's Name: b. Operator's Phone No.: Operator's Address: Special Handling Instructions and additional information: PERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, propertors of the state of the special Address in proper condition for transport by highway according to applicable international and governmental regulations. Operator's Name & Tite: Print/Type Operator's Signature Date Triable; Non-friable; Both % friable % nonfriable		WRENTHAM, MA		f. Vehicle License Acknowledgeme	No./State:	MA
Section III DESTINATION (Generator completes a-d; destination site completes e-f) a. Site Name: EFI MAHONING LANDFILL c. Phone No.: /C16 826 8013 b. Physical Address: 5100 S. STATE LINE ROAD d. Mailing Address: PO BOX 5240 LOVELLVILLE OH 44436 POLAND OH \$4514 a. Discrepancy Indication Space: I hereby certify that the above named has been accepted and to the best of my knowledge the foregoing is true and accurate. Name of Authorized Agent Signature Receipt Date Section IV ASBESTOS (Generator completes a-d,f.g, Operator* completes e) Operator* Name: b. Operator* Phone No.: Destination in the proper condition for transport by highway according to applicable international and governmental regulations. Operator* Print/Type Operator* Signature Pint/Type Operator* Signature	c. Driver Name/Title: _	KAY A. MOGRE		- don't	1/1/mm \	06
a. Site Name: BFI MAHONING LANDFILL c. Phone No.: (216) 536-3013 b. Physical Address: 5100 S. STATE LINE ROAD d. Mailing Address: PO BOX 5240 LOVVELLVILE OH 44436 Discrepancy Indication Space: Thereby certify that the above named has been accepted and to the best of my knowledge the foregoing is true and accurate. Name of Authorized Agent Signature Receipt Date Section IV ASBESTOS (Generator completes a-d.f.g, Operator's completes e) Operator's Name:	Section III			Driver Signature	The state of the s	Shipmer
Departors Name: Operators Name: Departors Name and labeled, and are in all respects in proper condition for transport by highway according to applicable international and governmental regulations. Operators Name and Address Operators Name (a Title: Print/Type Operators Name (a Mon-friable; Non-friable; Non-friable; Non-friable; Other A6336 A Mailing Address: PO BOX 5240 POL AND OH 64514 Receipt Date Asserting Address: Special Handling Instructions and additional Information: PERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, proper of the contents of the contents of this consignment are fully and accurately described above by proper shipping name and are classified, proper of the contents of the contents of this consignment are fully and accurately described above by proper shipping name and are classified, proper of the contents of the contents of this consignment are fully and accurately described above by proper shipping name and are classified, proper of the contents o				pletes a-d; destination site	e completes e-f)	
LOVELLVILLE OH 14836 POLAND OH 14514 Discrepancy Indication Space: Thereby certify that the above named has been accepted and to the best of my knowledge the foregoing is true and accurate. Name of Authorized Agent Signature Receipt Date Section IV ASBESTOS (Generator completes a-d.f.g, Operator's completes e) Operator's Name: Operator's Address: Special Handling Instructions and additional information: PERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified. p arked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and governmental regulations. Operator's Name & Title: Pinit/Type Operator's Signature Date Area and Address If Responsible Agency: Both % friable % nonfriable				c. Phone No.:	(216) 536-5013	
Discrepancy Indication Space: Thereby certify that the above named has been accepted and to the best of my knowledge the foregoing is true and accurate. Name of Authorized Agent Signature Receipt Date Section IV ASBESTOS (Generator completes a=d,f,g, Operator* completes e) Degrator's* Name: Degrator's* Name: Degrator's* Address: Special Handling Instructions and additional information: PERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, p arked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and governmental regulations. Operator's* Name & Title: Print/Type Operator's* Signature Date Friable; Non-friable; Both % friable % nonfriable				d. Mailing Address:	PO BOX 5240	
Thereby certify that the above named has been accepted and to the best of my knowledge the foregoing is true and accurate. Name of Authorized Agent Signature Receipt Date ASBESTOS (Generator completes a-d,f,g, Operator* completes e) Operator's* Name: Departor's* Name: Departor's* Phone No.: Special Handling Instructions and additional information: PERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, parked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and governmental regulations. Operator's* Name & Title: Print/Type Operator's* Signature Operator's* Signature Date Friable; Non-friable; Both % friable % nonfriable			36		POLAND OH 445	14
Name of Authorized Agent Signature ASBESTOS (Generator completes a-d,f,g, Operator's completes e) Operator's Name: Operator's Name: Departor's Address: Special Handling Instructions and additional information: PERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, p arked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and governmental regulations. Operator's Name & Title: Print/Type Operator's Signature Operator's Signature Friable; Non-friable; Both % friable % nonfriable	 Discrepancy Indication I hereby certify that the 	on Space: ne above named has been accepted and	to the heat of my limit	4		·
Section IV ASBESTOS (Generator completes a-d,f,g, Operator* completes e) Operator's* Name:	_	and a sour accepted and	to the best of my knowled	age the foregoing is true and a	ccurate.	
Section IV ASBESTOS (Generator completes a-d,f,g, Operator* completes e) Degrator's* Name:	Name of Authorized Age	nt	Signature		·	
Decrator's* Name:	Section IV	ACDEO				Receipt Date
Operator's* Address: Special Handling Instructions and additional information: PERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, p arked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and governmental regulations. Operator's* Name & Title: Print/Type Operator's* Signature Operator's* Signature Print/Type Operator's* Signature Print/Type Operator's* Signature Print/Type Operator's* Signature					mpletes e)	
Special Handling Instructions and additional information: PERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, p arked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and governmental regulations. Operator's* Name & Title: Print/Type Operator's* Signature Operator's* Signature Date Friable; Non-friable; Both % friable % nonfriable				b. Operator's* Phone No.:		
PERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, p arked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and governmental regulations. Operator's* Name & Title: Print/Type						
Operator's* Name & Title: Print/Type Operator's* Signature Date Print/Type Operator's* Signature Oper			· · · · · · · · · · · · · · · · · · ·			
Operator's* Name & Title: Print/Type Operator's* Signature Date Print/Type Operator's* Signature Oper	PERATOR'S CERTIFI Parked, and labeled, and	CATION: I hereby declare that the contidered in all respects in proper condition to	ents of this consignment a	are fully and accurately describ	ed above by proper shipping nar	ne and are classified in
Print/Type Operator's* Signature Date Of Responsible Agency: Friable; Non-friable; Both % friable % nonfriable	Onerator's* Name & Title	`	or manisport by nighway ac	ccording to applicable internat	ional and governmental regulation	ns.
of Responsible Agency: Non-friable; Both % friable % nonfriable		nt/Type		Operator's* Signature		Date
% friable % nonfriable	Name and Address					Laid
	Prii Name and Address of Responsible Agency:					• •
	Name and Address of Responsible Agency:	Non-friable;	Both	% friable	% nonfrieble	



NON:HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

No. 015116

If waste is asbestos waste, complete Sections I, II, III and IV.

If waste is NOT asbestos waste, complete only Sections I, II, and III.

Section I	GENERATOR (Gene	rator completes all of Secti	ion I)
. Generator Name:	BEATRICE COMPANY	_ b. Generating Location: _	BEATRICE COMPANY
. Address:	208 SOUTH LASALLE STREET	_ d. Address:	246 SALEM ST. REAR
. Addiess.	CHICAGO, IL 60604	_	WOBURN, MA 01801
Phone No.: owner of the general Owner's Name:	(508) 371-1422 ating facility differs from the generator, provide:	f. Phone No.: _ h. Owner's Phone No.:	(508) 371-1422
BFI WASTE CODE Description of Waste	LIFECOTY, PO III (Lacense Folkieses) REACHTO, PO III (Lacense Folkieses) REACHTORISES (CONTABINATED SOIL	k. Quantity Uni	BA - 6 MIL. PLASTIC B or WRAP T - TRUCK
not a hazardous wa	the above named material does not contain free liquid as definate as defined by 40 CFR Part 261 or ant applicable state law indition for transportation according to applicable regulations.	ned by 40 CFR Part 260.10 or has been properly described	any applicable state law, is
Section II	TRANSPORTER (Generator of		i complete e-g)
a. Name:	FRANKLIN ENVIRONMENTAL SERTIN	NSPORTERIA d. Phone No.: _	(508) 384-6151 e. Truck No.:
o. Address:	WHENTHAM MA CASH IN	f. Vehicle License Acknowledgeme	No./State:ent of Receipt of Materials.
. Driver Name/Title	Print/Type	g. Driver Signature	Shipment (
Section III	III S I N/A I I IN/A Concretor con	nalatae a.d. daetinatian eit	
	DESTINATION (Generator con	ilpietes a-u, destillation sit	
· · · · · · · · · · · · · · · · · · ·	BFI MAHONING LANDFILL	_ c. Phone No.: _	(216) 536-8013
. Site Name:	BFI MAHONING LANDFILL 8100 S. STATE LINE ROAD		(215) 536-8013 PO 60X 5240
a. Site Name: D. Physical Address D. Discrepancy Indica	BFI MAHONING LANDFILL 8100 S. STATE LINE ROAD LOVVELLVILLE, OH 44436 ation Space:	_ c. Phone No.: _ _ d. Mailing Address: _ 	(216) 536-8013 PO 60X 5240 POLAND OH 44514
a. Site Name: D. Physical Address D. Discrepancy Indica	BFI MAHONING LANDFILL 8100 S. STATE LINE ROAD LOWELLVILLE, OH 44436	_ c. Phone No.: _ _ d. Mailing Address: _ 	(216) 536-8013 PO 60X 5240 POLAND OH 44514
a. Site Name: b. Physical Address c. Discrepancy Indicating Indi	BFI MAHONING LANDFILL 8100 S. STATE LINE ROAD LOWELLVILLE. OH 44436 ation Space: the above named has been accepted and to the best of my known	_ c. Phone No.: _ _ d. Mailing Address: _ 	(216) 536-8013 PO 60X 5240 POLAND OH 44514
a. Site Name: b. Physical Address c. Discrepancy Indicating Indi	BFI MAHONING LANDFILL 8100 S. STATE LINE ROAD LOWELLVILLE. OH 44436 ation Space: the above named has been accepted and to the best of my known	_ c. Phone No.: _ d. Mailing Address: eledge the foregoing is true and	(216) 536-8013 PO BOX 5240 POLAND OH 44514 accurate. Receipt Date
a. Site Name: b. Physical Address c. Discrepancy Indical I hereby certify that Name of Authorized A	BFI MAHONING LANDFILL 8100 S. STATE LINE ROAD LOVVELLVILLE. OH 44436 ation Space: the above named has been accepted and to the best of my known gent Signature ASBESTOS (Generator con	c. Phone No.: d. Mailing Address: dedge the foregoing is true and mpletes a-d,f,g, Operator* c	(216) 536-8013 PO BOX 5240 POLAND OH 44514 accurate. Receipt Date
a. Site Name: b. Physical Address c. Discrepancy Indical I hereby certify that Name of Authorized A Section IV a. Operator's* Name	BFI MAHONING LANDFILL 8100 S. STATE LINE ROAD LOWELLVILLE. OH 44436 ation Space: the above named has been accepted and to the best of my known gent Signature ASBESTOS (Generator con	c. Phone No.: d. Mailing Address: dedge the foregoing is true and mpletes a-d,f,g, Operator* c	(216) 536-8013 PO BOX 5240 POLAND OH 44514 accurate. Receipt Date
a. Site Name: D. Physical Address Discrepancy Indicated Inhereby certify that Name of Authorized A Section IV Decrease Name: Operator's* Address	BFI MAHONING LANDFILL 8100 S. STATE LINE ROAD LOVVELLVILLE. OH 44436 ation Space: the above named has been accepted and to the best of my known gent Signature ASBESTOS (Generator con	c. Phone No.: d. Mailing Address: dedge the foregoing is true and mpletes a-d,f,g, Operator* c b. Operator's* Phone No.:	(216) 536-8013 PO BOX 5240 POLAND OH 44514 accurate. Receipt Date
a. Site Name: D. Physical Address D. Discrepancy Indicated Interest of Authorized A Section IV D. Operator's* Name D. Operator's* Address J. Special Handling Instruction DERATOR'S CER marked, and labeled	BFI MAHONING LANDFILL 8100 S. STATE LINE ROAD LOWELLVILLE. OH 44436 ation Space: It the above named has been accepted and to the best of my known gent Signature ASBESTOS (Generator con	c. Phone No.: d. Mailing Address: rededge the foregoing is true and mpletes a-d,f,g, Operator* c b. Operator's* Phone No.: nt are fully and accurately description.	(216) 536-8013 PO BOX 524D POLAND OH 44514 accurate. Receipt Date ribed above by proper shipping name and are classified, pa
a. Site Name: D. Physical Address Discrepancy Indical Inhereby certify that Name of Authorized A Section IV Decreator's* Name Decreator's* Address Special Handling Instru	BFI MAHONING LANDFILL 8100 S. STATE LINE ROAD LOWELLVILLE. OH 44436 ation Space:	c. Phone No.: d. Mailing Address: rededge the foregoing is true and mpletes a-d,f,g, Operator* c b. Operator's* Phone No.: nt are fully and accurately description.	(216) 536-8013 PO BOX 524D POLAND OH 44514 accurate. Receipt Date ribed above by proper shipping name and are classified, pa

GENERATOR RETAIN



NON:HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV. If waste is \underline{NOT} asbestos waste, complete only Sections I, II, and III.

No. 015117

	_
[·	
(-	11

Section I	GEN	ERATOR (Genera	ator completes all of Sec	tion I)	
a. Generator Name:	BEATRICE COMPANY		b. Generating Location:_	BEATRICE COM	PANY
c. Address:	208 SOUTH LASALLE STA	REET	d. Address:	246 SALEM ST.	TEAR
	CHICAGO, IL 60604		d. / ldd/055.	WOBURN, MA 0	1801
e. Phone No.:	(508) 371-1422		f. Phone No.:	(508) 371-1422	
If owner of the gener g. Owner's Name:	ating facility differs from the generator, pro-	vide:	h. Owner's Phone No.: _		
i. BFI WASTE CODE	MA/ 855/ 950803/ 215631		Owner of Hone Ho	Containers	TYPE DM - METAL DRUM
j. Description of Waste:	Chinominana harrous outsume of URS977, PG III (Maine Political) Politikano, Old i reportable contr		k. Quantity Uni		DP - PLASTIC DRUM B - BAG
	CHLORDANG CONTAMINATED SOIL				BA - 6 MIL. PLASTIC BA or WRAP T - TRUCK
I hereby certify that not a hazardous wa and is in proper con	the above named material does not contain see as delined by 40 CFR Part 261 or ant a idition for transportation according to applic	n free liquid as defined applicable state law, he cable regulations.	d by 40 CFR Part 260.10 or las been properly described	any applicable state law, is f, classified and packaged,	O - OTHER UNITS P - POUNDS
Al Xan	Afternat for best		(In the	50 6 54	Y - YARDS M³ - CUBIC METERS
Generator Authorized A	gent Name /	Signature		Shipment Date	Y ³ - CUBIC YARDS O - OTHER
Section II	TRANSPORT	ER (Generator cor	npletes a-d; Transporter	I complete e-g)	•
a. Name:	FRANKLIN-ENVIRONMEN			(508) 384-6151	e. Truck No.:
o. Address:	INDUSTRIAL ROAD JACK	GEAL TRAM	f. Vehicle License	No (State:	e. Huck No.:
	WEENTHAM, MA PA	124, 111	Acknowledgeme	ent of Receipt of Materials.	
. Driver Name/Title:	Print/Type		g. Driver Signature	of all	9-6-7
Section III		N (Generator comp	letes a-d; destination site	completes e-f)	Shipment Da
. Site Name:	BFI MAHONING LANDFILL		c. Phone No.:	(216) (40):	
	9100 S. STATE LINE ROAL		d. Mailing Address:	P PC	
•	LOWELLVILLE OH 44436		d. Mailing Address	E Co. M.	\$.44°
. Discrepancy Indicat	ion Space:		<u>.</u>		
I hereby certify that t	the above named has been accepted and to t	he best of my knowled	ge the foregoing is true and a	accurate.	
		<u> </u>			
Name of Authorized Ag	ent .	Signature			Receipt Date
Section IV	ASBESTO	Generator compl	etes a-d,f,g, Operator* co	ompletes e)	
. Operator's* Name: _			b. Operator's* Phone No.:		
Operator's* Address:_	·				
Special Handling Instructi	ons and additional information:				
PERATOR'S CERTI arked, and labeled, a	FICATION: I hereby declare that the contents and are in all respects in proper condition for the second sec	s of this consignment a ransport by highway ac	re fully and accurately descrit	bed above by proper shipping n	ame and are classified, pack
Operator's* Name & Title					O.1.0.
P Name and Address of Responsible Agency: _	?rint/Type	The state of the s	Operator's* Signature		Date
Friable;	Non-friable; Bo	oth	% friable	% nonfriable	
Operator refers to the	e company which owns, leases, operates, co		e facility being demolished a	or renovated or the downlist	
93			OR RETAIN		i renovation operation, or bo



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFES

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II, and III.

No. 015118

	GENERATOR (Gene	erator completes all of Secti	on I)	
a. Generator Name:	BEATRICE COMPANY	b. Generating Location:	BEATRICE COM	PANY
c. Address:	208 SOUTH LASALLE STREET	_ d. Address:	246 SALEM ST. I	REAR
:	CHICAGO, IL 60604	_	WOBURN, MA Ó	1801
e. Phone No.:	(508) 371-1422	f. Phone No.:	(508) 371-1422	
f owner of the gener g. Owner's Name:	rating facility differs from the generator, provide:	_ h. Owner's Phone No.: _		
BFI WASTE CODE	MAV 855/ 950803/ 215631	_	Containers	TYPE DM - METAL DRUM
. Description of Waste:	- Спуновневи насекво заканска, жик, и сл. 5-е, . UNDEF7, PO III (Майне Politiari),	_ k. Quantity Unit		DP - PLASTIC DRUM B - BAG
· 	PORCHARMANDO LINERALMA GORRAL CHI CHEORDARE COMMANDA ELECTER			BA - 6 MIL. PLASTIC E
I hereby certify that	the above named material does not contain free liquid as defin	ned by 40 CFR Part 260.10 or	any applicable state law, is	T - TRUCK O - OTHER
not a hazardous wa	aste as defined by 40 CFR Part 261 or ant applicable state law ndition for transportation according to applicable regulations.	, has been properly described	classified and packaged,	UNITS P - POUNDS
Par 1/10	video (And la Bostia)		601194	Y - YARDS M³ - CUBIC METERS Y³ - CUBIC YARDS
enérator/Adthorized A	gent Mame Signature		Shipment Date	O - OTHER
Section II	TRANSPORTER (Generator of		complete e-g)	
ı. Name:	FRANKLIN ENVIRONMENTAL SERTIN	NSPORTER I. d. Phone No.:	(508) 384-6151	e. Truck No.:
. Address:	INDUSTRIAL ROAD JACK GRAYTA	And I see f. Vehicle License I	No./State:	
	WRENTHAM MA GARY IN	Acknowledgeme	nt of Receipt of Materials.	
. Driver Name/Title:	•		· 81.	
Section III	Print/Type DESTINATION (Generator cor	Driver Signature	completes e-f)	Shipment D
	BFI MAHONING LANDFILL		· · · · · · · · · · · · · · · · · · ·	
. Site Name:	8100 S. STATE LINE ROAD	_ c. Phone No.:	(216) 836-8013 PO BOX 5240	
. Physical Address:	LOWELLVILLE OH 44436	_ d. Mailing Address:	POLAND, OH 446	~ 1 à
	Print & A Print Print Call & day and Call		E CALAMANA MARI E MARI	#14·
		-		
	tion Space: the above named has been accepted and to the best of my know	ledge the foregoing is true and a	accurate.	-
Discrepancy Indica I hereby certify that		ledge the foregoing is true and a	occurate.	
	the above named has been accepted and to the best of my know	ledge the foregoing is true and a	accurate.	Receipt Date
I hereby certify that Name of Authorized A	the above named has been accepted and to the best of my know gent Signature			Receipt Date
Name of Authorized A	gent Signature ASBESTOS (Generator con	npletes a-d,f,g, Operator* co	ompletes e)	
Name of Authorized Agencies IV Operator's* Name:	gent Signature ASBESTOS (Generator con	npletes a-d,f,g, Operator* co		
Name of Authorized Agention IV Operator's* Name:	gent Signature ASBESTOS (Generator con	npletes a-d,f,g, Operator* co b. Operator's* Phone No.:	ompletes e)	
Name of Authorized Agention IV Operator's* Name: Operator's* Address: Special Handling Instruc	gent Signature ASBESTOS (Generator con	npletes a-d,f,g, Operator* co _ b. Operator's* Phone No.:	ompletes e)	
Name of Authorized Agention IV Operator's* Name: Operator's* Address: Special Handling Instruction	gent Signature ASBESTOS (Generator con	npletes a-d,f,g, Operator* co b. Operator's* Phone No.: nt are fully and accurately descri	ompletes e)	name and are classified. pa
Name of Authorized Agencies Name: Operator's* Name: Operator's* Address: Special Handling Instructor PERATOR'S CERT narked, and labeled,	gent Signature ASBESTOS (Generator conditions and additional information: Infications: I hereby declare that the contents of this consignment and are in all respects in proper condition for transport by highway	npletes a-d,f,g, Operator* co b. Operator's* Phone No.: nt are fully and accurately descrive according to applicable internal	ompletes e)	name and are classified, pactions.
Name of Authorized Agencies Name: Operator's* Name: Operator's* Address: Special Handling Instructor PERATOR'S CERT narked, and labeled,	gent Signature ASBESTOS (Generator conditions and additional information: TIFICATION: I hereby declare that the contents of this consignment and are in all respects in proper condition for transport by highway. Print/Type	npletes a-d,f,g, Operator* co b. Operator's* Phone No.: nt are fully and accurately descri	ompletes e)	name and are classified. pa

GENERATOR RETAIN



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

No. 015119



Section I	GENERATOR (Genera	ator completes all of Secti	on I)
a. Generator Name:	BEATRICE COMPANY	b. Generating Location:	BEATRICE COMPANY
c. Address:	208 SOUTH LASALLE STREET	d. Address:	246 SALEM ST. REAR
c. Address.	CHICAGO, IL 50604	d. Address.	WOBURN, MA 01801
- Dhana Na i	(508) 371-1422	f Dhana No :	(508) 371-1422
-	ating facility differs from the generator, provide:	f. Phone No.:	· · · · · · · · · · · · · · · · · · ·
g. Owner's Name:	MA/ 855/ 950803/ 215631	h. Owner's Phone No.:	IYPE
i. BFI WASTE CODE	EDWICHMANNEL FRACTICALS CHEMINALS CHARLES CO. S.		Containers DM - METAL DRUM DP - PLASTIC DRUM B - BAG
j. Description of Waste	PROJECTION OF THE PROPERTY OF THE CHILDREN OF THE CONTAMINATED SCHOOL STREET	k. Quantity Unit	S No. TYPE B - BAG BA - 6 MIL PLASTIC B or WRAP
			T - TRUCK
not a hazardous wa	the above named material does not contain free liquid as define aste as defined by 40 CFR Part 261 or ant applicable state law, h	as been properly described	
and is in proper cor	ndition for transportation according to applicable regulations.	A STATE OF THE STA	Y - YARDS M³ - CUBIC METERS
Generator Authorized A	gent Name Signature	The state of the s	Shipment Date Y - CUBIC YARDS O - OTHER
Section II	TRANSPORTER (Generator co	moletes a.d: Transporter I	(complete e-a)
	FRANKLIN ENVIRONMENTAL SERVEN	RORTER-1	
a. Name:	INDUSTRIAL ROAD	d. Friorie No	e. Iruck No.:
b. Address:	WRENTHAM, MA	f. Vehicle License N Acknowledgeme	No./State: nt of Receipt of Materials.
	MANID MOSHER	- County of	1819 ALL
c. Driver Name/Title:	Print/Type	g. Driver Signature	Shipment D
Section III	DESTINATION (Generator comp	oletes a-d; destination site	completes e-f)
a. Site Name:	BFI MAHONING LANDFILL	c. Phone No.:	(216) 536-8013
b. Physical Address:	5100 S. STATE LINE ROAD	d. Mailing Address:	PO BOX 5240
·	LOWELLVILLE, OH 44436	- <u>19</u> -	POLAND, OH 44514
e. Discrepancy Indica	ution Space;		
I hereby certify that	the above named has been accepted and to the best of my knowled	dge the foregoing is true and a	accurate.
f			
Name of Authorized A	gent Signature		Receipt Date
Section IV	ASBESTOS (Generator comp	oletes a-d,f,g, Operator* co	ompletes e)
		· · · · · · · · · · · · · · · · · · ·	ompletes e)
a. Operator's* Name:		b. Operator's Phone No.:	ompletes e)
a. Operator's* Name: c. Operator's* Address		· · · · · · · · · · · · · · · · · · ·	ompletes e)
a. Operator's* Name: c. Operator's* Address d. Special Handling Instru		b. Operator's* Phone No.:	bed above by proper shipping name and are classified, pa
a. Operator's* Name: c. Operator's* Address d. Special Handling Instru	ctions and additional information:	b. Operator's* Phone No.:	bed above by proper shipping name and are classified, pa

Operator, refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or but the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or but the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or but the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or but the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or but the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition of the company of



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFES

No. 015120



If waste is asbestos waste, complete Sections I, II, III and IV.

If waste is NOT asbestos waste, complete only Sections I, II, and III.

Section I	GENERATOR (Gener	ator completes all of Sectio	on I)	
Generator Name:	BEATRICE COMPANY	b. Generating Location:	BEATRICE COMPANY	
c. Address:	208 SOUTH LASALLE STREET	d. Address:	246 SALEM ST. REAR	
•	CHICAGO, IL 60604	•	WOBURN, MA 01801	
. Phone No.:	(508) 371-1422	f. Phone No.:	(508) 371-1422	-
fowner of the gener Owner's Name:	ating facility differs from the generator, provide:	h. Owner's Phone No.:	- 14 43 - 14 - 14 - 14 - 14 - 14 - 14 -	
BFI WASTE CODE	LIBERTAL PROPERTY OF THE CARROLL OF THE PARTY OF THE PART		DP - F	TYPE METAL DRUM PLASTIC DRUM
Description of Waste	RODERCEROLES ENERGIES CAMBELLES CHESTARIC CONTACHENTED SON	k. Quantity Units	BA -6	SAG S MIL. PLASTIC BAG or WRAP TRUCK
not a hazardóús/wa	the above parned material does not contain free liquid as define uste as defined by 40.0FRPart 261 or ant applicable state law, I dition for transportation according to applicable regulations. Gent Name	has been properly described.	ny applicable state law, is classified and packaged, P - F Y 3 - C	OTHER UNITS POUNDS (ARDS CUBIC METERS CUBIC YARDS OTHER
Section II	TRANSPORTER (Generator co	empletes a-d; Transporter I	complete e-g)	•
Name:	FRANKLIN ENVIRONMENTAL SERTM	SPORTERA d. Phone No.:	(505) 384-6151 e.Tr	uck No.:
Address:	INDUSTRIAL ROAD	f Vehicle License No	o /State:	
	WRENTHAM, MA	Acknowledgement	t of Receipt of Materials.	
Driver Name/Title:	_ ah h. Malley	g		و ساسران
Section III	Print/Type DESTINATION (Generator com	Driver Signature pletes a-d; destination site	completes e-f)	Shipment Dat
Site Name:	BFI MAHONING LANDFILL	c. Phone No.:	(216) 53 6-8 013	
	8100 S STATE LINE ROAD	d. Mailing Address:	PO BOX 5240	
	LOWELLVILLE, OH 44436		POLAND, OH 44514	
e. Discrepancy Indica I hereby certify that	tion Space:the above named has been accepted and to the best of my knowled	dge the foregoing is true and ac	ccurate.	
Name of Authorized Ac	gent Signature		F	Receipt Date
Section IV	ASBESTOS (Generator comp	oletes a-d,f,g, Operator* con	npletes e)	
Operator's* Name:		b. Operator's* Phone No.:		
Operator's* Address:				
- . Special Handling Instruc	tions and additional information:			
larked, and labeled,	TIFICATION: I hereby declare that the contents of this consignment and are in all respects in proper condition for transport by highway a	are fully and accurately describe according to applicable internation	ed above by proper shipping name and onal and governmental regulations.	are classified, packe
Operator's* Name & Title: Name and Address of Responsible Agency:	Print/Type	Operator's* Signature	•	Date
Friable;	Non-friable; Both	% friable	% nonfriable	
Operator refers to th	ne company which owns leases operates controls or supervises.	the facility being demolished or	reposited or the demolities or re-	ion onoration as be

Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or bo



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFES

No. 015121

	نتبر		
		,	j
(/	1	٠.
`	<u> </u>		_

If waste is asbestos waste, complete Sections I, II, III and IV. If waste is <u>NOT</u> asbestos waste, complete only Sections I, II, and III

Section I		erator completes all of Sec	
a. Generator Name:	BEATRICE COMPANY	b. Generating Location:	REATRICE COMPANY
c. Address:	208 SOUTH LASALLE STREET	d. Address:	246 SALEM ST. REAR
c. Address.	CHICAGO, IL 60604	u. Address.	WOBURN, MA 01601
_	(508) 371-1422 rating facility differs from the generator, provide:	f. Phone No.:	(508) 371-1422
g. Owner's Name: i. BFI WASTE CODE j. Description of Waste	EDITABLE HOUSE DESCRICTED CONTRACTOR CAMBINATION OF THE	h. Owner's Phone No.: k. Quantity y	Containers DM - METAL DRUM DP - PLASTIC DRUM DP - PLASTIC DRUM B - BAG BA - 6 MIL. PLASTIC OF WRAP T - TRUCK OF OTHER
not a hazardous wa	the above named material does not contain free liquid as defiaste as defined by 40 CFR Part 261 or ant applicable state lay addition for transportation according to applicable regulations. Out And Then But I keep to Signature	ined by 40 CFR Part 260.10 o v, has been properly describe	r any applicable state law, is d. classified and packaged, Shipment Date O - OTHER UNITS P - POUNDS Y - YARDS M³ - CUBIC METERS Y³ - CUBIC YARDS O - OTHER
Section II	TRANSPORTER (Generator		r I complete e-g)
a. Name:	FRANKLIN ENVIRONMENTAL SER	d. Phone No.:	(508) 384-6151 e Truck No.:
b. Address:	INDUSTRIAL ROAD	f. Vehicle License	e No./State:
	WRENTHAM, MA	Acknowledgerr — //	nent of Receipt of Materials.
c. Driver Name/Title:	KA-A. NOORF	g. Driver Signature	7/1000 9/3/ Shipment
Section III	DESTINATION (Generator co		
a. Site Name:	BFI MAHONING LANDFILL	c. Phone No.:	(216) 535-8013
	\$100 S STATE LINE ROAD	d. Mailing Address:	PO BOX 5240
5. 1 17 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	LOWELLVILLE, OH 44436		POLAND, OH 44514
e. Discrepancy Indica I hereby certify that	ation Space:the above named has been accepted and to the best of my know	Medge the foregoing is true and	d accurate.
f Name of Authorized A	gent Signature		Receipt Date
Section IV	ASBESTOS (Generator co	mpletes a-d,f,g, Operator*	completes e)
a. Operator's* Name:		b. Operator's* Phone No.:	
c. Operator's* Address		·	
•			
marked, and labeled,	TIFICATION: I hereby declare that the contents of this consignme and are in all respects in proper condition for transport by highway	ent are fully and accurately desay according to applicable inter	cribed above by proper shipping name and are classified, p national and governmental regulations.
e. Operator's* Name & Title:	Print/Type	Operator's* Signature	Date
f. Name and Address	· ····································		
g Friable;	•	% friable	% nonfriable
* Oppostas valav- t- t	ho company, which owns leaves an existing a section of the company		



No. 015122

If waste is asbestos waste, complete Sections I, II, III and IV.

Section I	If waste is NOI aspestos waste	rator completes all of Sections 1, 1		
. Generator Name:	BEATRICE COMPANY	b. Generating Location:	BEATRICE COMPANY	
. Generator Name: . Address:	208 SOUTH LASALLE STREET	d. Address:	246 SALEM ST. REAR	
. Address.	CHICAGO, IL 60604	d. Address:	WOBURN, MA 01801	
. Phone No.:	(508) 371-1422	- . f. Phone No.: _	(508) 371-1422	
owner of the gener . Owner's Name:	ating facility differs from the generator, provide:	h. Owner's Phone No.: _		
BFI WASTE CODE	MA/ 855/ 950803/ 215631		TYPE Containers DM - METAL DRUM	
Description of Waste:	1 (понуменения коломунами лючениями экин (4 %) — 9 (449): F. E. (III Лонуная Ромайска)	. k. Quantity Uni	DP - PLASTIC DRUM ts No. TYPE B - BAG	
	CONTRACTOR OF PROPERTY CARRIES OF THE STATE	/5	BA - 6 MIL. PLASTIC BAI or WRAP T - TRUCK	
not a hazardous wa				
Section II	TRANSPORTER (Generator co	ompletes a-d; Transporter	I complete e-g)	
. Name:	FRANKLIN ENVIRONMENTAL SERTAN	SPORTER L. d. Phone No.:	(508) 384-6151 / e. Truck No. 4/7/	
. Address:	INDUSTRULBOAD A	f. Vehicle License	No /State:	
	WRENTHAM MA WARREN NO	Acknowledgeme	nt of Receipt of Materials.	
. Driver Name/Title:	Print/Type Print/Type	g. Driver Signature	Shipment Da	
Section III	DESTINATION (Generator com	9		
. Site Name:	BFI MAHONING LANDFILL	c. Phone No.:	(216) 5 36-8013	
. Physical Address:	\$100 S STATE LINE ROAD	d. Mailing Address:	PO BOX 5240	
,	LOWELLVILLE OH 44436		POLAND, OH 44614	
. Discrepancy Indica I hereby certify that	tion Space: the above named has been accepted and to the best of my knowle	edge the foregoing is true and	accurate.	
Name of Authorized A	gent Signature		Receipt Date	
Section IV	ASBESTOS (Generator com	pletes a-d,f,g, Operator* c	ompletes e)	
. Operator's* Name:		b. Operator's* Phone No.:		
Operator's* Address:				
. Special Handling Instruc	tions and additional information:			
PERATOR'S CERT narked, and labeled,	TFICATION: I hereby declare that the contents of this consignment and are in all respects in proper condition for transport by highway	t are fully and accurately descr according to applicable interna	ibed above by proper shipping name and are classified, pack ational and governmental regulations.	
Operator's* Name & Title:	Print/Type	Operator's* Signature	Date	
Name and Address of Responsible Agency:				
Friable;	Non-friable: Both	% friable	% nonfriable	
111000,				

Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or bo **GENERATOR RETAIN**



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II, and III.

No. 015123

260-720B-C

Description of Waste Proceedings Process	Section I	GENERATOR (Gener	rator completes all of Sec	tion I)
c. Address: 208 SOUTH LASALLE STREET d. Address: CHICAGO, IL 60604 WOBURN, MA 01501 6. Phone No.: (508) 371-1422 1.	a. Generator Name:	BEATRICE COMPANY	b. Generating Location	BEATRICE COMPANY
CHICAGO, IL 60604 a. Prome No.: (508) 371-1422 b. Phone No.: (508) 371-1422 c. Phone No.: (508) 371-1422 b. Phone No.: (508) 371-1422 c. Phone No.: (508) 371-1422 b. Owner's Phone No.: (508) 371-1422 c. P		208 SOUTH LASALLE STREET	_	•
if owner's Name: Owner's Name: N. Owner's Phone No.:	0.7.00.000	CHICAGO, IL 60504		WOBURN, MA 01501
L BFI WASTE CODE ANA 655/ 950803/215631 L BFI WASTE CODE ANA 655/ 950803/215631 Description of Waste. ANA 656/ 950	If owner of the gener	` '		(508) 371-1422
Northern poetricy that the above named material does not contain free liquid as defined by 40 CFR Part 86.10 or any applicable state law, his not a hazardous waste as defined by 40 CFR Part 861 or ant applicable state law, has been properly described, dasgified and packaged, and jis in proper condition for transportation according to applicable regulations. Annual About Alice of transportation according to applicable regulations. Annual About Alice of transportation according to applicable regulations. Annual About Alice of transportation according to applicable regulations. Signature S	i. BFI WASTE CODE	Chyronium fol charlegors, colored registation follower LINSO(7, 1951) (Marino Politikos), Politik relation, color biografica es caratura (1.10)		Containers DM - METAL DRUM DP - PLASTIC DRUM B - BAG BA - 6 MIL. PLASTIC B or WRAP
a. Name: b. Address: NEWSTRIAL ROAD ASSESTING Prone No.: (508) 384-6151 e. Truck No.:	not a hazardous wa and is in proper cor	iste as defined by 40 CFR Part 261 or ant applicable state law, idition for transportation according to applicable regulations.		r any applicable state law, is id, classified and packaged, classified and packaged, y - POUNDS Y - YARDS M³ - CUBIC METERS Y³ - CUBIC METERS Y³ - CUBIC YARDS
D. Address: NEUSTRIAL ROAD 1. Vehicle License No /State: Section II			r I complete e-g)	
b. Address: INGUSTRIAL ROAD VRENTHAM MA INDUSTRIAL ROAD I. Vehicle License No./State: Acknowledgement of Receipt of Materials. C. Driver Name/Title: Print/Type Section III DESTINATION (Generator completes a-d; destination site completes e-f) a. Site Name: BFI MAHONING LANDFILL C. Phone No.: LOVELLVILLE OH 44436 d. Mailing Address: PO BOX 5241 POLAND. OH 44514 e. Discrepancy Indication Space: Thereby certify that the above named has been accepted and to the best of my knowledge the foregoing is true and accurate. Section IV ASBESTOS (Generator completes a-d.f.g, Operator* completes e) a. Operator* Name: b. Operators* Name: c. Operators* Name: b. Operators* Phone No.: C. Operators* Name: c. Operators* Name in all respects in proper condition for transport by highway according to applicable international and governmental regulations. a. Operators* Name & Title: Print/Type Operators* Signature Operators* Signature Operators* Signature Operators* Signature Operators* Signature Operators* Signature Operators* Signature Operators* Signature Operators* Signature Operators* Signature Operators* Signature	a. Name:	FRANKLIN ENVIRONMENTAL SERTAN	. a. Fliolie No	e. Huck No.:
Section III DESTINATION (Generator completes a-d; destination site completes e-f) a. Site Name: BFI MAHONING LANDFILL c. Phone No.: (215) 536-8013 b. Physical Address: 100 S. STATE LINE ROAD d. Mailing Address: POLAND. OH 44514 c. Discrepancy Indication Space: Thereby certify that the above named has been accepted and to the best of my knowledge the foregoing is true and accurate. Signature Receipt Date Section IV ASBESTOS (Generator completes a-d,f,g, Operator* completes e) a. Operator's Name: b. Operator's Phone No.: Coperator's Address: Described above by proper shipping name and are classified marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and governmental regulations. Application III DESTINATION (Generator completes a-d; f,g, Operator's Phone No.: Coperator's Name: Coperator's Name: Coperator's Name: Coperator's Name: Coperator's Name: Coperator's Name and additional information: Coperator's Name a Title Print/Type Coperator's Name a Title Print/Type Coperator's Signature (I Responsible Agency: Coperator's Signature)	b. Address:		f. Vehicle License Acknowledgem	No./State: Ario Ghio ent of Receipt of Materials.
a. Site Name: BFI MAHONING LANDFILL c. Phone No.: (215) 536-8013 b. Physical Address: 8100 S. STATE LINE ROAD d. Mailing Address: PO BOX 5240 LOWELLVILLE OH 44436 POLAND, OH 44514 e. Discrepancy Indication Space: Ihereby certify that the above named has been accepted and to the best of my knowledge the foregoing is true and accurate. 1. Name of Authorized Agent Signature Receipt Date Section IV ASBESTOS (Generator completes a-d.f.g., Operator's completes e) a. Operator's Name: b. Operator's Phone No.: c. Operator's Address: d. Special Handling Instructions and additional information: OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and governmental regulations. a. Operator's Name & Title: Print/Type Operator's Signature The Name and Address of Responsible Agency.	c. Driver Name/Title:	Print/Type	g. Driver Signature	Shipment 9-17
b. Physical Address: 8100 S STATE LINE ROAD d. Mailing Address: PO BOX 5240 LOWELLVILLE OH \$4436 POLAND, OH \$4516 e. Discrepancy Indication Space: Thereby certify that the above named has been accepted and to the best of my knowledge the foregoing is true and accurate. 1. Name of Authorized Agent Signature Receipt Date Section IV ASBESTOS (Generator completes a-d.f.g., Operator* completes e) a. Operator's* Name: b. Operator's* Phone No.: c. Operator's* Address: d. Special Flandling Instructions and additional information: OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and governmental regulations. e. Operator's* Name & Title: Print/Type Operator's* Signature 7. Operator's* Signature Operator's* Signature	Section III	DESTINATION (Generator com	pletes a-d; destination si	te completes e-f)
e. Discrepancy Indication Space: Thereby certify that the above named has been accepted and to the best of my knowledge the foregoing is true and accurate. Name of Authorized Agent Signature Receipt Date	a. Site Name:	BFI MAHONING LANDFILL	c. Phone No.:	(215) 536-8013
e. Discrepancy Indication Space: I hereby certify that the above named has been accepted and to the best of my knowledge the foregoing is true and accurate. f. Name of Authorized Agent Signature Receipt Date Section IV ASBESTOS (Generator completes a-d.f.g, Operator* completes e) a. Operator's* Name: b. Operator's* Phone No.: c. Operator's* Address: d. Special Handling Instructions and additional information: OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and governmental regulations. a. Operator's* Name & Title: Print/Type Operator's* Signature f. Name and Address of Responsible Agency:	b. Physical Address:	#100 S. STATE LINE ROAD	d. Mailing Address: _	PO BOX 5240
I hereby certify that the above named has been accepted and to the best of my knowledge the foregoing is true and accurate. f		LOWELLVILLE OH 44436		POLAND, OH 44514
ASBESTOS (Generator completes a-d,f,g, Operator* completes e) a. Operator's* Name:			edge the foregoing is true and	accurate.
a. Operator's* Name:	f Name of Authorized Ag	gent Signature		Receipt Date
c. Operator's* Address: d. Special Handling Instructions and additional information: OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and governmental regulations. e. Operator's* Name & Title: Print/Type Operator's* Signature f. Name and Address of Responsible Agency:	Section IV	ASBESTOS (Generator com	pletes a-d,f,g, Operator* o	completes e) .
c. Operator's* Address: d. Special Handling Instructions and additional information: OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and governmental regulations. e. Operator's* Name & Title: Print/Type Operator's* Signature f. Name and Address of Responsible Agency:	a. Operator's* Name:		b. Operator's* Phone No	·
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and governmental regulations. e. Operator's* Name & Title: Print/Type Toperator's* Signature Operator's* Signature			•	
marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and governmental regulations. e. Operator's* Name & Title: Print/Type Operator's* Signature f. Name and Address of Responsible Agency:	d. Special Handling Instruc	tions and additional information:		
Print/Type Operator's* Signature f. Name and Address of Responsible Agency:	OPERATOR'S CERT marked, and labeled,	IFICATION: I hereby declare that the contents of this consignment and are in all respects in proper condition for transport by highway	t are fully and accurately desc according to applicable interr	cribed above by proper shipping name and are classified, panational and governmental regulations.
	f. Name and Address		Operator's* Signature	Date
g	g Friable;	Non-friable; Both	% friable	% nonfriable



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MA

No. 015124

			complete only Sections I			
Section I	GENER	ATOR (Genera	ator completes all of Se	ction I)		
enerator Name: .	BEATRICE COMPANY		b. Generating Location	BEATRICE	COMPA	MY
Address:	208 SOUTH LASALLE STRE	A Part	d. Address:	246 CALER	AST RE	AR
	CHICAGO, IL 50604			WOBURN	MA 018	31
Phone No.:	(508) 371-1422	<u> </u>	f. Phone No.:	(508) 371-1	422	
wner of the general wner's Name:	ating facility differs from the generator, provide	9:	h. Owner's Phone No.:			
BFI WASTE CODE.	MAV 855/ 950803/ 215531	;		Contain	ers [[<u>TYPE</u>)M - METAL DRUM
escription of Waste:	Taloniani massa merengan menggalah sebes (BIS) (T. BIS) Malangan Kabupata		k. Quantity U	Jnits No.	TYPE E	
scription of Waster.	17. 10. 18. 18. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	6 1 C) 68 23		y 2 <u>, , , , , , , , , , , , , , , , , , </u>	, E	BA - 6 MIL. PLASTIC BAG or WRAP - TRUCK
t a hazardous wad is in proper condition and its in proper condition. Section II Name: Address: Driver Name/Title: Section III Site Name:	TRANSPORTE FRANKLIN ENVIRONMENT INDUSTRIAL ROAD WRENTHAM MA Print/Type	Signature R (Generator co	ompletes a-d; Transport	er I complete e-g) (505) 356-6 se No./State: ment of Receipt of Mat	ri Date	UNITS POUNDS Y - POUNDS Y - YARDS O - CUBIC METERS O - OTHER e. Truck No.: Shipment Date
Discrepancy Indicate hereby certify that	tion Space:the above named has been accepted and to the	e best of my knowle	edge the foregoing is true a	nd accurate.		
ame of Authorized Ag	gent	Signature				Receipt Date
Section IV	ASBESTOS	(Generator com	pletes a-d,f,g, Operator	* completes e)		
Dperator's* Name:			b. Operator's* Phone No.	•		
' Operator's* Address:	•		<u> </u>			
pecial Handling Instruc	tions and additional information:		,			
ERATOR'S CERT	TFICATION: I hereby declare that the contents and are in all respects in proper condition for tra	of this consignment unsport by highway	are fully and accurately de according to applicable into	escribed above by prope ernational and governme	r shipping nam ental regulation	ne and are classified, packe s.
perators* Name & Title: Name and Address of Responsible Agency:	Print/Type		Operator's* Signature			Date
Friable;	Non-friable; Bo	th	% friable	% non	friable	



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV. If waste is \underline{NOT} asbestos waste, complete only Sections I, II, and III.

No. 015125 (



ction I	GENERATOR (Genera	ator completes all of Section	on I)
erator Name:	BEATRICE COMPANY	b. Generating Location:	BEATRICE COMPANY
ŀ	208 SOUTH LASALLE STREET	d. Address:	246 SALEM ST REAR
ess:	CHICAGO, IL 60604	· ·	WOBURN, MA 01801
	(508) 371-1422	f. Phone No.:	(508) 371-1422
_	ating facility differs from the generator, provide:	h. Owner's Phone No.:	
ier's Name:	MAJ 855/ 950803/ 215631	TI. OWIGI ST HOROTON.	TYPE Containers DM - METAL DRUM
ASTE CODE	CHARLEST FRAGERICAS CARRENGES (CARRENGES) UNDOZZ, PG III (Marino Politichii)	k. Quantity Unit	DP - PLASTIC DRUM DP - BAG
iption of Waste:	CHICKDANE CONTANIMATED SOIL (2007) 2014	K. Quartity	BA - 6 MIL PLASTIC BAG or WRAP
hazardous wa in proper cor	the above named material does not contain free liquid as define ste as defined by 40 CFR Part 261 or ant applicable state law, addition for transportation according to applicable regulations gent Name Signature	ed by 40 CFR Part 260.10 or a has been properly described	T - TRUCK O - OTHER UNITS P - POUNDS Y - YARDS M³ - CUBIC METERS Y³ - CUBIC YARDS O - OTHER
ction II	TRANSPORTER (Generator co	ompletes a-d; Transporter	complete e-g)
CHOIL II	FRANKLIN ENVIRONMENTAL SERTEN		(508) 384-6151 e. Truck No.:
ne:	INDUSTRIAL ROAD	•	e. Huck No
ress:	WRENTHAM, MA	f. Vehicle License l Acknowledgeme	nt of Receipt of Materials.
er Name/Title:	Print/Type	g. Driver Signature	Shipment Date
ction III	DESTINATION (Generator com		e completes e-f)
-	BFI MAHONING LANDFILL	c. Phone No.:	(216) 536-8013
Name:	8100 S. STATE LINE ROAD	d. Mailing Address:	PO BOX 5240
sicai Address	LOWELLVILLE OH 44436	_	POLAND, OH 44514
	the Constant	·	
repancy Indicates the repart of the repart o	ation Space: t the above named has been accepted and to the best of my knowledge.	edge the foregoing is true and	accurate.
of Authorized A	Agent Signature		Receipt Date
ction IV	ASBESTOS (Generator con	npletes a-d,f,g, Operator* c	ompletes e)
		b. Operator's* Phone No.:	
rator's* Name			
rator's* Address	•		
	uctions and additional information:	nt are fully and accurately desc	ribed above by proper shipping name and are classified, packed, national and governmental regulations.
and Address sponsible Agence	Print/Type	Operator's* Signature	Date
Friable;	Non-friable; Both _	% friable	% nonfriable d or renovated, or the demolition or renovation operation, or both.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFES

If waste is asbestos waste, complete Sections I, II, III and IV. If waste is \underline{NOT} asbestos waste, complete only Sections I, II, and III.

No. 015126

78		<u>~</u>
1	7	7
	1	Li

Section I	GENERATOR (Ger	nerator completes all of Secti	ion I)						
a. Generator Name:	BEATRICE COMPANY	b. Generating Location:	BEATRICE COM	PANY					
c. Address:	208 SOUTH LASALLE STREET	d. Address: _	246 SALEM ST.	REAR					
	CHICAGO, IL 60604	· 	VVCBURN, MA 01801						
e. Phone No.:	(508) 371-1422	f. Phone No.:	(508) 371-1422						
If owner of the gener g. Owner's Name:	rating facility differs from the generator, provide:	h. Owner's Phone No.: _							
i. BFI WASTE CODE	MA/ 855/ 950803/ 215631		Containers	TYPE DM - METAL DRUM					
j. Description of Waste	_ The Street Representation of the street of	k. Quantity Uni		DP - PLASTIC DRUM B - BAG					
j. Description of waste	HOGGARGERY COLL BODON BOOK COSING CITO CHLORIZANE CORTAMINATED EXIL (1987)		المراجع المرادي	BA - 6 MIL. PLASTIC or WRAP T - TRUCK					
not a hazardous wa	the above named material does not contain free liquid as de aste as defined by 40 CFR Part 261 or ant applicable state la ndition for transportation according to applicable regulations. Signature	w, has been properly described	any applicable state law, is d, classified and packaged, Shipment Date	O - OTHER UNITS P - POUNDS Y - YARDS M³ - CUBIC METER Y³ - CUBIC YARDS O - OTHER					
Section II	TRANSPORTER (Generator	r completes a-d: Transporter	I complete e-a)						
	FRANKLIN ENVIRONMENTAL SER	ANSPORTER 1	(508) 384-6151						
a. Name:	INDUSTRIAL ROAD	<u> </u>		e. Truck No.:					
b. Address:	WRENTHAM, MA	f. Vehicle License Acknowledgeme	No./State:ent of Receipt of Materials.						
. Dairea Neas Title	The second second		and the same	7.70					
c. Driver Name/Title:	Print/Type	g		Shipmer					
Section III	DESTINATION (Generator co	ompletes a-d; destination site	e completes e-f)						
a. Site Name:	BFI MAHONING LANDFILL	c. Phone No.: _	(216) 535-8013						
b. Physical Address	8100 S STATE LINE ROAD	d. Mailing Address:	PO BOX 5246						
	LOWELLVILLE OH 44438	 ,	POLAND OH 44	514					
e. Discrepancy Indica I hereby certify that f. Name of Authorized A	t the above named has been accepted and to the best of my kno	owledge the foregoing is true and	accurate.	Receipt Date					
	gent signature			neceipt Date					
Section IV	ASBESTOS (Generator co	ompletes a-d,f,g, Operator* c	ompletes e)	•					
a. Operator's* Name:		b. Operator's* Phone No.:							
c. Operator's* Address									
d. Special Handling Instru	ctions and additional information:	·		15.00					
marked, and labeled,	TIFICATION: I hereby declare that the contents of this consignm and are in all respects in proper condition for transport by highways and are in all respects in proper condition for transport by highways are in all respects.								
e. Operator's* Name & Title:	Print/Type ·	Operator's* Signature		Da					
 f. Name and Address of Responsible Agency: 	:	· · · · · · · · · · · · · · · · · · ·							
g Friable;	Non-friable; Both	% friable	% nonfriable						
* Operator refers to t	the company which owns, leases, operates, controls, or supervision	ses the facility being demolished	or renovated, or the demolition	or renovation operation,					



NON:HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV. If waste is \underline{NOT} asbestos waste, complete only Sections I, II, and III.

No. 015127

	_,	_
45.1	1	٠.
	1	~
_/	- 7	<i>T</i> .
1		1.
ŧ	Ţ	•
ί	4	
•		-

Section I	GENERATOR (Ge	nerator completes all of Sect	ion I)	
a. Generator Name:	BEATRICE COMPANY	b. Generating Location: _	BEATRICE COMPANY	
c. Address:	208 SOUTH LASALLE STREET	d. Address:	246 SALEM ST. REAR	
c. Address.	CHICAGO, IL 50604	u. Address	WOBURN, MA 01801	
e. Phone No.:	(508) 371-1422	f. Phone No.: _	(508) 371-1422	
If owner of the gener g. Owner's Name:	ating facility differs from the generator, provide:	h. Owner's Phone No.: _		
i. BFI WASTE CODE	MA/ 855/ 950803/ 215634	II. Owner's Phone No		TYPE AL DRUM
	Therefore the Herman Definition (Company to Company)	L. Overstite	DP - PLAS	STIC DRUM
j. Description of Waste	CHLORDAME CONTAMINATED SOIL 1 2011	k. Quantity Un	BA - 6 MI	L. PLASTIC E or WRAP
not a hazardous wa	the above named material does not contain free liquid as deaste as defined by 40 CFR Part 261 or ant applicable state landition for transportation according to applicable regulations.	aw, has been properly described	d, classified and packaged, P - POU Y - YARI M³ - CUB	IER UNITS INDS DS BIC METERS BIC YARDS
		A AMERICAN STREET		
Section II	TRANSPORTER (Generato	· · · · · · · · · · · · · · · · · · ·		
a. Name:	FRANKLIN ENVIRONMENTAL SERV	d. Phone No.:	(508) 384-6151 e. Truck	No.:
b. Address:	INDUSTRIAL ROAD	f. Vehicle License Acknowledgeme	No./State:ent of Receipt of Materials.	
	WRENTHAM, MA	$ \mathbb{Z}/\mathbb{Z}$	A. H.	ا چو تاپ
c. Driver Name/Title:	Print/Type	g. Driver Signature	1 Carps	Shipment
Section III	DESTINATION (Generator c	ompletes a-d; destination sit	e completes e-f)	
a. Site Name:	BFI MAHONING LANDFILL	c. Phone No.: _	(216) 536-8013	
b. Physical Address:	8100 S. STATE LINE ROAD	d. Mailing Address:	PO BOX 5246	
	LOWELLVILLE, OH 44436		POLAND, OH MASIM	
e. Discrepancy Indica I hereby certify that	tion Space:the above named has been accepted and to the best of my known	owledge the foregoing is true and	accurate.	
f Name of Authorized A	gent Signature		Rece	eipt Date
Section IV	ASBESTOS (Generator c	ompletes a-d,f,g, Operator* c	ompletes e)	
a. Operator's* Name:				
c. Operator's* Address:	ctions and additional information:			
OPERATOR'S CERT	TIFICATION: I hereby declare that the contents of this consignment and are in all respects in proper condition for transport by high	nent are fully and accurately desc	ribed above by proper shipping name and are ational and governmental regulations.	classified, pa
e. Operator's* Name & Title:	Print/Type	Operator's* Signature		Date
f. Name and Address of Responsible Agency:	•	Operator s Digitatore		
g Friable;	Non-friable; Both	% friable	% nonfriable	· .
* Operator refers to the	he company which owns, leases, operates, controls, or superv	ises the facility being demolished		operation, o



1/93

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFES

If waste is asbestos waste, complete Sections I, II, III and IV. If waste is <u>NOT</u> asbestos waste, complete only Sections I, II, and III.

No. 015128

Section I	GENERATO	R (Generat	or completes all of Section	on I)	
	BEATRICE COMPANY		b. Generating Location:	BEATRICE COM	PANY
a. Generator Name:	208 SOUTH LASALLE STREET		d. Address:	246 SALEM ST. F	REAR
c. Address:	CHICAGO, IL 60604		d. Address	WOBURN, MA 01	1801
	(508) 371-1422		f Dhana Na :	(508) 371-1422	
_	ating facility differs from the generator, provide:		f. Phone No.: h. Owner's Phone No.:		, , , , , , , , , , , , , , , , , , , ,
g. Owner's Name: i. BFI WASTE CODE j. Description of Waste:	MAV 855/ 950803/ 215631 Lindicamenda reconcess cameros seconda esta UN2077, PO III (Manus Pollurari) HOLOMATORIO, CONTAMINATED SOIL CHEGREPANE, CONTAMINATED SOIL		k. Quantity Units	Containers No. TYPE	TYPE DM - METAL DRUM DP - PLASTIC DRU B - BAG BA - 6 MIL PLASTIC OF WRAP T - TRUCK O - OTHER
not a hazardous wa	the above named material does not contain free liquiste as defined by 40 CFR Part 261 or ant applicable dition for transportation according to applicable registrivity.	e state law, ha	by 40 CFR Part 260.10 or as been properly described,	any applicable state law, is classified and packaged, Shipment Date	P - POUNDS Y - YARDS M³ - CUBIC METER Y³ - CUBIC YARDS O - OTHER
Section II			npletes a-d; Transporter I	complete e-g)	•
a. Name:	FRANKLIN ENVIRONMENTAL	SERTAN	PORTER I. d. Phone No.:	(508) 384-5151	e. Truck No.:
b. Address:	INDUSTRIAL ROAD		f. Vehicle License N	lo./State: nt of Receipt of Materials.	
	WRENTHAM, MA		Acknowledgemen	nt of Receipt of Materials.	
c. Driver Name/Title:	Print/Type		g. Driver Signature		Shipme
Section III		erator comp	letes a-d; destination site	completes e-f)	
	BFI MAHONING LANDFILL		c. Phone No.:	(216) 536-8013	
a. Site Name:	8190 S. STATE LINE ROAD		d. Mailing Address:	PO BOX 5240	
b. Physical Address:	LOWELLVILLE, OH 84436		₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	POLAND, OH 44	
- Disconnecteding					
e. Discrepancy Indica I hereby certify that Name of Authorized A	the above named has been accepted and to the best	of my knowled	ge the foregoing is true and a	accurate.	Receipt Date
Section IV	ASBESTOS (Gen	erator comp	letes a-d,f,g, Operator* co	ompletes e)	
•			·		
c. Operator's* Address	ctions and additional information:				
OPERATOR'S CER	TIFICATION: I hereby declare that the contents of this and are in all respects in proper condition for transpor	consignment a	are fully and accurately descri	ibed above by proper shipping attional and governmental regula	name and are classified ations.
e. Operator's* Name & Title:	Print/Type		Operator's* Signature		····
f. Name and Address of Responsible Agency			Operator of digital of		
g Friable;	Non-friable; Both		% friable	% nonfriable	
* Operator refers to 1	the company which owns, leases, operates, controls,	or supervises t	the facility being demolished	or renovated, or the demolition	or renovation operatio

GENERATOR RETAIN

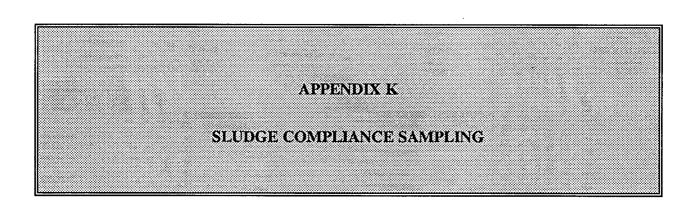


Table 1
Sludge Compliance Sample Summary (mg/Kg)

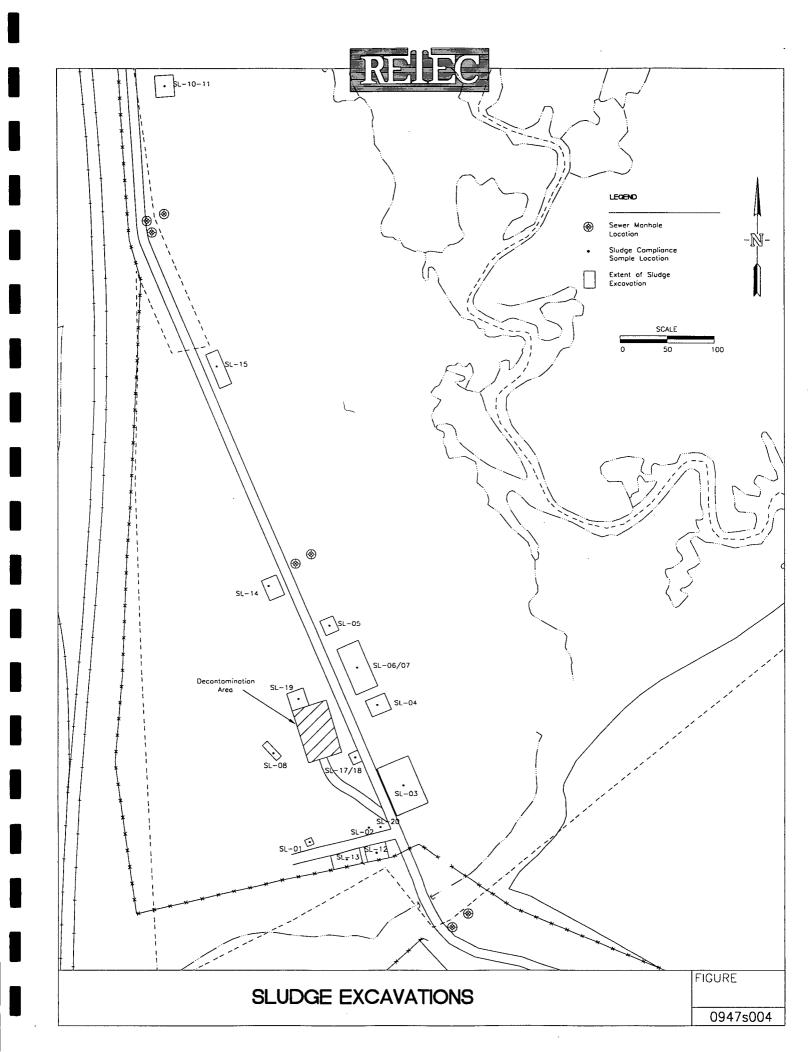
	Target !		SL-2	SL-3	SL-4	SL-5	SL-6/7	SL-8	SL-8	SL-10/11
Compound	Concentration	08/30/94	10/18/94	08/30/94	08/30/94	08/30/94	08/30/94	08/30/94	09/08/94	08/30/94
Lead	640	19.0	9.1	124.8	72.7	14.2	8.7	51.3		10.2
Chlordane	6.14	0.015	0.251	0.786	0.011	1.492	0.009	50.55	4.206	0.293
4, 4 - DDT	23.5	0.007	0.019	0.084	0.004	0.035	0.006	0.933	0.035	0.004
cPAHs	0.69	0.028	0.026	0.101	0.561	0.211	0.252	0.284		0.035
PCBs	1.04	0.297	0.334	0.979	0.259	0.263	0.274	307.1	0.290	0.346
STA	TUS	pass	pass	pass	pass	pass	pass	fail	pass	pass

	Target	SL-12	SL-12	SL-13	SL-14	SL-14	SL-15	SL-17/18	SL-19	SL-20
Compound	Concentration	08/30/94	09/08/94	08/30/94	08/30/94	09/08/94	08/30/94	10/18/94	10/18/94_	10/18/94
Lead	640	228.5		66.6	58.1		24.2	41.9	29.5	41.0
Chlordane	6.14	0.283		0.010	0.049		0.020	0.021	0.010	1.490
4, 4 - DDT	23.5	0.179		0.006	0.032		0.002	0.002	0.004	0.004
cPAHs	0.69	1.930	0.302	0.320	0.323		0.124	0.259	0.257	0.341
PCBs	1.04	0.416		0.036	1.328	0.538	0.248	0.331	0.351	0.325
STA	ATUS	fail	pass	pass	fail	pass	pass	pass	pass	pass

Notes:

All concentrations mg/kg

- No analysis performed



Sludge VOCs (ug/Kg) Compliance Sample Summary

	SL-01 08/30/94	SL-02 11/15/94	SL-03 08/30/94	SL-04 08/30/94	SL-05 08/30/94	SL-6/7 08/30/94	\$L-08 08/30/94	SL-10/11 08/30/94
	ug/kg Q	11/13/94 ug/kg Q	ug/kg Q		***************************************		ug/kg Q	ng/kg Q
Chloromethans	200000000000000000000000000000000000000		************	< 1.0 U			< 1.3 U	30333000 304 - 30000. 0
Bromomethane	l i			< 1.0 U		< 1.2 U	< 1.3 U	
Vinyl Chloride				< 1.0 U		< 1.2 U	< 1.3 U	
Chloroethane				< 1.0 U		< 1.2 U	< 1.3 U	
Methylene Chloride				9.5 UJ		12.0 UJ	< 16.0 U	
Acetone				8.3 UJ		5.2 UJ	< 7.8 U	
Carbon Disulfide	j l			< 1.0 U		< 1.2 U	< 1.3 U	
1,1-Dichloroethens				< 1.0 U		< 1.2 U	< 1.3 U	
1,1-Dichloroethane				< 1.0 U]	< 1.2 U	< 1.3 U	
1,2-Dichloroethene (cis)				< 1.0 U		< 1.2 U	< 1.3 U	
1,2-Dichloroethene (trans)	< 13 U			< 1,0 U	< 11 U		< 13 U	6.6
Chloroform	e 15 U	< 1,3 U	< 11 U	< 1.0 U	< 1.1 U	000000000000000000000000000000000000000	< 1.3 U	< 1.5 U
1,2-Dichloroethane				< 1.0 U		< 1.2 U	< 1.3 U	
2-Butanone				< 14 U		< 5.0 U	< 1.3 U	one of control of the
[]] -Trichloroethane	< 1,3 U	< 1.3 U	< 1.1 U	BEIORIOGO COCONTRACTO COCO COCONTRACTO	< 1.1 U	COMPANY OF THE PROPERTY OF THE	SINDHORESCON ACADOCOCOCONARS	< 1.5 U
Carbon Tetrachloride				< 1.0 U	!	< 1.2 U	< 1.3 U	i
Bromodichloromethane				< 1.0 U		< 1.2 U	< 1.3 U	
1,2-Dichloropropane				< 1.0 U	Į	< 1.2 U	< 1.3 U < 1.3 U	
cis-1,3-Dichloropropene	MUDON STUDENTS STORE STO		100000000000000000000000000000000000000	< 1.0 U		< 1.2 U	,	9 <u>2</u> 11
Trichloroethene	< 1.3 U	< 1.3 U	< 1,1 U	2015 010 010 110 110 110 110 110 110 110	5 1.1 U	< 1,2 U	999-960999-RA-9999996555-66	29.11
Dibromochloromethane				< 1.0 U		< 1.2 U		
1,1,2-Trichloroethane				< 1.0 U		< 1.2 U < 1.2 U		
Benzens				< 1.0 U	1			
trans-1,3-Dichloropropene				< 1.0 U			< 1.3 U	
Bromoform					I .		< 1.3 U	
4-Methyl-2-Pentanone				1		< 1.2 U < 1.2 U		
2-Hexanone		e se				₹ 1.2 U	\ 1.3 U	
Tetrachioroethene	6 13 Ü			RESPONSED FOR CONTRACTOR	er engagementary our ontoe endotyse.	< 1.2 U	< 1.3 U	
1.1,2,2-Tetrachloroethane				< 1.0 U	1	< 1.2 U	< 1.3 U	
Tohiene	1		l	< 1.0 U	I	< 1.2 U	< 1.3 U	
Chlorobenzene	1			< 1.0 U	L	< 1.2 U	< 1.3 U	
Ethylbenzene			1	< 1.0 U	1	< 1.2 U	< 1.3 U	
Styrene	1			< 1.0 U		1.2	< 1.3 U	
Xylene (total)			<u> </u>	1.0 0			/ 1.3 0	

Notes:

- U The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.
- J The associated numirical value is an estimated quantity.
- UJ The material was analyized for, but was not detected. The sample quantitation limit is an estimated quantity.

Sludge VOCs (ug/Kg) Compliance Sample Summary (continued)

SL-12 08/30/94 ug/kg O	SL-13 08/30/94 ug/kg Q	SL-14 08/30/94 ug/kg Q	SL-15 08/30/94 ng/kg Q	SL-17/18 11/15/94 ug/kg Q	SL-19 11/15/94 ug/kg Q	SL-20 11/15/94 ug/kg Q
ntantiobesaronrunarinsti" "						
e ii ū	≼ I.I Ū	< กัก บั	< 1.0 U	< 1.2 Ū	1.9	< 12 Ŭ
< 10.0	< 1.1 <u>U</u>	< 1.1 <u>V</u>	< 1:0 <u>U</u>			
< 111 U	< 1.1 U	< 11. U	20.1	2:1	< 1.2 U	2.4
<u> </u>	< 11 U	< 10 Ü	< 1.8 U	< 1.2 U	< 1.2 U	< 112 U
	(8/30/94 ug/kg Q vg/kg Q < 1.1 U < 1.1 U	08/30/94 ug/kg Q ug/kg Q < 11.1 U < 1.1 U 08/30/94 08/30/94 08/30/94 ug/kg Q ug/kg Q ug/kg Q ug/kg Q ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Q Ug/kg Ug/kg Q Ug/kg Q Ug/kg Ug/kg	OS/30/94 OS/30/94 OS/30/94 US/SQ US/Kg Q US/	08/30/94 08/30/94 08/30/94 08/30/94 11/15/94 ug/kg Q u	08/30/94 08/30/94 08/30/94 08/30/94 11/15/94 11/15/94 ug/kg Q	

Notes:

- U The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.
- J The associated municical value is an estimated quantity.
- UJ The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

Sludge cPAH (ug/Kg) Compliance Sample Summary

		\$1-1 /30/94			SI-2 /18/94			SI-3 /30/9	4	D:	SI-4 1/30/9	4		SI-5 /30/9-			SI-6/7 V/30/9		0	\$1-8 B/30/9	4		-10/1 /30/9	
		ıg/kg			g/kg		ų	g/kg	Q		ug/kg	Q		g/kg			ug/kg			ug/kg			g/kg	Q
Phenol			- 1							-	225	U				<	239	U	<	268	U			
bis(2-Chloroethyl)ether									- 1	<	225	U				<	239	U	<	268	U			
2-Chlorophenol						-				<	225	U			- 1	<	239	U	<	268	U			
1,3-Dichlorobenzene	ľ					-			l	<	225	U				<	239	U	<	268 268	ซ			
1,4-Dichlorobenzene	l		- 1			- 1				<	225	U				<	239 239	ช	<	268	ช			
1,2-Dichlorobenzene										<	225	U			- 1	< <	239	U	<	268	ซ			
2-Methylphenol									- 1	<	225 225	ซ				<	239	บ	~	268	U			
2,2'-oxybis(1-Chloropropune						1				<	225	ซ			- 1	~	239	บั	~	268	ŭ			
4-Methylphenol			- }						1	<	225	ซ			- 1	2	239	Ŭ	~	268	ซ			
N-Nitroso-di-n-propylamine										<	225	บ			- 1	2	239	Ŭ	<	268	ซีโ			
Hexachioroethene						- 1				?	225	บ			- 1	<	239	ŭ	<	268	ซิโ			
Nitrobenzene			- 1			- 1				~	225	บไ			-	<	239	Ŭ	~	268	Ū			
isophorone			ı							<	225	ŭ			- 1	<	239	U	<	268	U			
2-Nitrophenol 2.4-Dimethylphenol	1		- 1			- 1				<	225	υl				<	239	U	<	268	υ			
bis(2-Chloroethoxy)methane	1		- 1			- 1			i	<	225	Ū				<	239	U	<	268	บ			
			ı							<	225	Ū				<	239	U	<	268	U			
2,4-Dichlorophenol 1,2,4-Trichlorobenzene			- 1			- 1				<	225	Ū				<	239	Ū	<	268	U			
1,2,4-1 reniorobezzeze Naphthalene	1		- 1			- [~	225	ŭ]	<	239	Ū	<	268	Ū			
Naphunaume 4-Chloroaniline			- 1			- 1			- 1	~	225	ŭ			- 1	<	239	Ū	<	268	Ū			
4-Chioroeniime Hexachlorobutadiene									ļ	<	225	Ŭ			ļ	<	239	Ū	<	268	U			
4-Chloro-3-methylphenol									ŀ	<	225	Ū				<	239	U	<	268	U			
2-Methylnaphthalene						- 1				<	225	Ū			ı	<	239	U	<	268	U			
Hexachlorocyclopentadiene	1					i			- 1	<	225	U			- 1	<	239	U		93	J			
2.4.6-Trichlorophenol									- 1	<	225	υl			- 1	<	239	U	<	268	บ			
2,4,5-Trichlorophenol						ĺ				<	561	บไ			- 1	<	596	U	<	670	U			
2-Chloronaphthalene	1								İ	<	225	U				<	239	U	<	268	U			
2-Nitroeniline	1					1				<	561	U			ŀ	<	596	บ	<	670	U			
Dimethylphthalate	1		l			1			- [<	225	U			ĺ	<	239	U	<	268	U			
Accompletelylene	1		ĺ			ļ			- !	<	225	υl				<	239	U	<	268	U			
2.6-Dinitrotoluene	1									<	225	U			- 1	<	239	U	<	268	U			
3-Nitroeniline			- 1						- 1	<	561	U				<	596	U	<	670	U			
Acenaphthene	1		1			I			ļ	<	225	U				<	239	U	<	268	U			
2,4-Dinitrophenol	1		ı			- 1				<	561	U				<	596	U	<	670	U			
4-Nitrophenol	1		- 1			- 1				<	561	U				<	596	U	<	670	U			
Dibenzofuran	1		I							<	225	U			- 1	<	239	U	<	268	U	i		
2.4-Dinitrotokuene	1		-							<	225	U				<	239	U	<	268	U	ŀ		
Diethylphthalate	1		- 1			- 1			- 1	<	225	U			- 1	<	239	U	<	268	U			
4-chlorophenyl-phenylether	1		- 1			- 1			- 1	<	225	U				<	239	U	<	268	U			
Fluorene	1		- 1			- 1				<	225	U				<	239	U	<	268	U			
4-Nitroeniline	1					- 1				<	561	U				<	596	U	<	670	U			
4.6-Dinitro-2-methylphenol						- 1				<	561	U				<	596	U	<	670	U			
N-Nitrosodiphenylamine (1)										<	225	U			1	<	239	U	<	268	U			
4-Bromophenyl-phenylether						ı				<	225	U				<	239	U	<	268	U	l		
Hexachlorobenzene									- 1	<	225	U				<	239	U	<	268	Ū	i		
Pentachlorophenol										<	561	U	l			<	596	U	l	62	ì			
Phonanthrene										<	225	U				<	239	U	١.	75	J			
Anthrecene						- 1				<	225	U	l			<	239	U	<	268	U	l		
Carbazole						1				<	225	U	ŀ			<	239	Ū	<	268	U			
Di-n-butylphthelate	1										225	В				_ ا	268	J	<	268	U			
Fluoranthene			Ì						1	<	225	U				<	239	U	l	93				
Pyrenc			- 1								136	J				<	239	U	ر ا	111	IJ	l		
Butylbenzylphthalate	1		- 1								225	UJ				<	239	U	<	268	U	l		
3,3'-Dichlorobenzidine	1					,.	_			l	225	Ωì		40		<	239	U	<	268 51	U	<	45	U
Benzo(a)anthracene	<	39	U	<	38	U	<	36	U	l	77	J	l	40		>	36	U				<	45	U
Chryscae	<	39	U	<	38	U	<	36	U	l	135	J	l	56		<	36	U		66	10	١`	43	U
bis(2-Ethylhexyl)phthalate						ļ				l	132	UJ	l			_	239	U	1_	428	В	l		
Di-n-octy/phthalate			ا ٍ			٦		••			225	Ų	l	74		<	239	U	<	268	U	l	25	J
Benzo(b)fluoranthene	1	28	1		26	ï	١.	38			153	ì		74	,,	<	36	U		91	•	_را	35 45	Ü
Benzo(k)fluoranthene	<	39	U	<	38	U	<	36	U	1	71	ĵ	<	34	U		36	U	1	29	J	1		
Benzo(a)pyrene	<	39	U		38	U		36	_	l	70	ì	_	41	,.	>	36	U	سا	47 40	J U	>	45 45	U
Indexo(1,2,3-cd)pyrene	<	39	U		38	U		27	J	İ	55	J	<	34	U	>	36 36	U		40	U	<	45 45	U
Dibeur(a,h)anthracenc	<	39	บ	<	38	U	<	36	U		34	IJ	^	34	U	<	36	U		268	U		43	U
Benzo(g,h,i)perylene	1										73		<u> </u>			<	239	U	<	208	U	L		

NOTES:

U - The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.

J - The associated numerical value is an estimated quantity.

UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

Sludge cPAH (ug/Kg) Compliance Sample Summary (continued)

	SI-12 8/30/94	09	31-12 /08/94	08	31-13 /30/94	******	SI-14 08/30/9	200	08/	I-15 30/94 g/kg (11	1-17/18 0/18/94 ug/kg (SI-19 10/18/94 ug/kg		SI-2 10/18 ug/k	
benel	ug/kg (2	yg/kg Q		g/kg (2	ug/kg	3.V.		(4.5 K66)	4 20000	uk (e.k		0 14 180			
s(2-Chloroethyl)ether								-							1		
Chlorophenol 3-Dichlorobenzene				1											- 1		
4-Dichierobenzene				1													
2-Dichiorobenzene Methylphenol		1									1				- 1		
Meany paesor T-oxybis(1-Chloropropane		İ		1		1		ı							-		
Methylphenol				ļ				- [1				- 1		
Nitroso-di-n-propylamine								- 1							- 1		
trobenzese		1											-		ł		
ophorone				ı							1						
Nitrophenol 4-Dimethylphenol				1													
(2-Chloroethoxy)methane						-											
4-Dichlorophenol						- 1		-			İ						
2,4-Trichlorobenzene aphthalene																	
Chlorosniline																	
exachlorobutadiene																	
Chloro-3-methylphenol Methylmaphthalene													1		ļ		
exachlorocyclopentadiene	ı	-															
1,6-Trichlorophenol 1,5-Trichlorophenol											-		1		-		
Chioronaphthalene		İ											Į.		l		
Nitroeniline																	
methylphthalate enaphthylene											-		-				
6-Dinitrotoluene											- 1		- 1				
Nitroeniline													-				
censphthese 4-Dinitrophesol		İ							i				1	•			
Nitrophenol						1					ı						
ibenzofur an		ı															
4-Dinitrotokiene iethylphthalate						-					- 1		-				
chlorophenyl-phenylether						- 1					- 1		İ				
luorene						- 1			ļ				- [
Nitroeniline 6-Dinitro-2-methylphenol									l		-						
-Nitrosodiphenylamine (1)				-							l						
Bromophonyl-phenylether				ĺ		İ					1						
exachiorobenzene entachiorophunol		- 1															
henanthrene		- [- 1										1	
nthracene		- 1		-		- 1			1				- 1			ł	
'arbezoic)i-n-buty lphthelate									Ì								
hioranthene											- 1					1	
yrene				i		i			İ				- 1				
uryibenzyiphthalate 3'-Dichlorobenzidine						l							- 1			١ ـ	
enzo(a)anthracene	301	İ	41	ł	47	ı	46		<	33		37	U	46 57			i3 i9
hrysene	593		76		61		57			124	`	37	۲	31		"	
is(2-Ethylhexyl)phthalate Di-n-octylphthalate											ļ] _	
lenzo(b)fluorenthene	386		96		104	ا _ ا	110		<	33		37	U	76 30	J		77 12
lenzo(k)fluoranthene	156	1	31 58		35 46	J	33 51		< <	33 33	U		บ	30 48	,		51
lenzo(a)pyrene ndeno(1,2,3-cd)pyrene	304 190	<		บ	40 27	ı	26		<	33	U <	37	υŀ	< 39	U	2	29
Dibenz(a,h)anthracene	< 35	บ <	• •	บ <				U	<	33	U	37	U	< 39	U	< 3	37
Benzo(g,h,i)perylene	š			i							L						

NOTES:

U - The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.

J - The associated numerical value is an estimated quantity.

UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

Sludge
Pesticides & PCBs (ug/Kg)
Compliance Sample Summary

		SLO1			SL-02			SL03			SL04			8L05			SL6/7			SL08			SL08			L10/11	000000000
	0	8/30/94	0		0/18/94 ug/kg	o		08/30/94 ug/kg	o		08/30/94 ug/kg	o		08/30/94 ug/kg	o		08/30/94 ug/kg	o		08/30/94 ug/kg	0		19/08/94 ug/kg	Q	١	98/30/94 ug/kg	Q
alpha-BHC	**********	ug/kg	80 X 31	00000000	nR\vR	****	9999999	SELECTION SECTION	<u>.</u>	<	2	Ŭ	******		~~	********	2	Ū	2000000	500 A. S. S. S. S. S. S. S. S. S. S. S. S. S.	00.40	*********	2	UJ	********	10m - 10m - 1000	
beta-BHC										<	2	U			ļ	<	2	บ					2	UJ			
delta-BHC						i				<	2	U					2	IJ					2	UJ			
gamma-BHC (Lindane										<	2	U			l		2	IJ					75	PE			
Heptachlor						ı				<	2	U				<	2	U				<	2	U			1
Aldrin										<	2	U	ĺ		- [<	2	U				<	2	U			
Heptachlor epoxide										<	2	U				Y	2 2	U				<	2 2	U U			
Endosulfan I										<	2	U				<	3	ΩJ				`	4	UJ			
Dieldrin			- 1							V	3 3	บ					3	JP				<	4	U			
4,4'-DDE Endrin										~	3	U					3	ນັ້ນ				`	4	Ü			
Endosulfan II										~	3	U	l				3	UJ				<	4	บ			
4.4'-DDD						ı				`	4	P					4	P				<	4	U			
Endosulfan sulfate										<	3	Ū					3	UJ				<	4	U			1
Methoxychlor										<	16	U					17	UJ					18	UJ	i		
Endrin ketone				ĺ						<	3	U					3	UJ				<	4	U			
Endrin aldehyde										<	3	U	İ			<	3	บ				<	4	U			
Toxaphene										<	162	U				<	171	U				<	181	U			
4.4'-DDT		7.3	P		19.0	P		84.3	DU		4.3	P		35.0	D		5.6	J		933	J		35.0	PE		3.5	1
alpha-Chlordane		7.6	-		116.0	DP		357.0	DP	1	5.7	P		673.0	PD	l	2.8	P		22850	D		2210	DP		140	D
gamma-Chlordane		7.1	P		135.0	DP	l	429.0	D		5.2	P		819.0	PD		6.3			27700	D		1996	Ρ.		153	D
Aroclor-1016	<	37.1	U	<	41.8	U	<	33.7	U	<	32.4	U	<	32.9	U	<	34.2		<	38391	_	<	36.2	U	ı	43.2	U
Aroclor-1221	<	74.2	U	<	83.6	U	<	67.4	U	<	64.8	U	<	65.9	U	<	68.5	U	<	76781	-	<	72.3	U	1	86.3	U
Aroclor-1232	<	37.1	U	<	41.8	U	<	33.7	U	<	32.4	U	<	32.9	U	<	34.2	U	<	38391	U		36.2	U	1 -	43.2	U
Aroclor-1242	<	37.1	U	<	41.8	U	<	33.7	U	<	32.4	U	<	32.9	U	<	34.2	U	<	38391	U		36.2	U		43.2	U
Aroclor-1248	<	37.1	U	<	41.8	U	<	33.7	U	<	32.4	U	<	32.9	U	<	34.2	U	<	38391	U	1 -	36.2	U U		43.2 43.2	U
Arccior-1254	<	37.1	U	<	41.8	U	<	33.7	U	<	32.4	U	<	32.9	U	<	34.2	U	<	38391	U		36.2 36.2	U	1 -	43.2 43.2	ช
Arocior-1260	<	37.1	U	<	41.8	U	<u> </u>	979.0	DP	<u> </u>	32.4	U	<u> < </u>	32.9	U	<u> </u>	34.2	U	<_	38391	U	<	30.2		<u> < </u>	43.2	

Notes:

- U The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.
- J The associated numerical value is an estimated quantity.
- UI The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.
- P Pesticide / Arocior target analyte has greater than 25 % difference detected concentrations between the two OC columns.
- D Compounds identified in the analysis at a secondary dilution factor.

Sludge
Pesticides & PCBs (ug/Kg)
Compliance Sample Summary (continued)

		SL12 08/30/94		ſ	SL13 08/30/94		(SL14)8/30/94		(SL14)9/08/94		(SL15)8/30/94			.17/18 /18/94		1	SL19 0/18/94		ı	SL-20 0/18/94	
		ug/kg	o		ug/kg	0		ug/kg	Q		ug/kg	Q		ug/kg	Q	1	ig/kg	Q		ug/kg	Q		ug/kg	Q
aipha-BHC beta-BHC delta-BHC gamma-BHC (Lindane Heptachlor Aldrin Heptachlor epoxide Endosulfan I Dieldrin 4,4'-DDE Endrin Endosulfan II 4,4'-DDD Endosulfan sulfate Methoxychlor Endrin ketone Endrin aldehyde Toxaphene																								
4.4'-DDT		179	DP		5.9	P		32.3	P					1.9	Л		2.0	JP	<	4.4	U	<	4.1	U
alpha-Chiordane		103	P		4.4	PJ		26.5						7.6	РJ		9.8	P		4.9	P		705	PD
gamma-Chlordane		180	DP		5.7	PJ		22.5	P				l	12.1	РJ		11.4	P		5.3	P		785	PD
Aroclor-1016	<	32.7	U	<	36.8	U	<	35.3	U	<	37.5	U	<	31.0	U	-	41.4	U	<	44	U	<	40.6	U
Aroclor-1221	<	65.3	U	<	73.6	U	<	70.5	U	<	74.9	U	<	62.1	U	<	82.8	U	<	87	U	<	81.2	U
Aroclor-1232	<	32.7	U	<	36.8	U	<	35.3	U	<	37.5	U	<	31.0	U		41.4	U	<	44	U	<	40.6	U
Aroclor-1242	<	32.7	U	<	36.8	U	<	35.3	U	<	37.5	U	<	31.0	U		41.4	U	<	44	U	<	40.6	U
Aroclor-1248	<	32.7	U	<	36.8	U	<	35.3	U	<	37.5	U	<	31.0	U	<	41.4	U	<	44	U	<	40.6	U
Aroclor-1254	<	32.7	U	<	36.8	U	<	35.3	U	<	37.5	U	<	31.0	U	<	41.4	U	<	44	U	<	40.6	U
Aroclor-1260		416.0	D	L	35.5	JP		1328	DP	<u>L</u>	538.0	P	<	31.0	U	<	41.4	U	<_	44	U	<	40.6	U

Notes:

- U The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.
- J The associated numerical value is an estimated quantity.
- UJ The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.
- P Pesticide / Aroclor target analyte has greater than 25 % difference detected concentrations between the two GC columns.
- D Compounds identified in the analysis at a secondary dilution factor.

Sludge Metals (mg/Kg) Compliance Sample Summary

	SL-01	SL-2	SL-03	SL-04	SL-05	SL-6/7	SL-08	SL-10/11
	08/30/94	10/18/94	08/30/94	08/30/94	08/30/94	08/30/94	08/30/94	08/30/94
Aluminum				3543		3321	5712	
Antimony				< 8.9 U		< 9.4 U	< 10.6 U	
Arsenic		İ		3.3		2.9	11.0	
Barium				15.9 B		9.1 B	20.6 B	
Beryllium				< 0.2 U		< 0.2 U	0.2 B	
Cadmium				0.6 B		< 0.7 U	< 0.7 U	
Calcium				544 B		415 B	480 B	
Chromium				11.9		7.6	11.3	
Cobalt				2.3 B		1.3 B	1.1 B	
Copper				8.1		4.9	15.1	
Iron	40.0	0.4.7	105	6261	14.0	3210	5430	10.2
Lead	19.0	9.1 J	125	72.7 879	14.2	8.7 714 B	51.3 419 B	10.2
Magnesium				45.4		37.3	419 B 42.8	
Manganese				< 0.1 U		< 0.1 U	0.4	
Mercury Nickel	·			7.0	1	4.9 B	< 1.9 U	
Potassium				172 B		117 B	< 65.8 U	İ
Selenium				0.3 B		0.3 B	0.9	
Silver				< 0.6 U		< 0.7 U	< 0.7 U	ŀ
Sodium			İ	109 B		101 B	114 B	
Thallium			1	< 0.2 U		< 0.2 U	< 0.2 U	, 1
Vanadium				6.6 B		5.6 B	18.2	
Zinc				24.7		16.8	32.9	
Cyanide				< 0.2 U		< 0.2 U	< 0.3 U	

Notes:

- U The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.
- J The associated numerical value is an estimated quantity.
- UJ The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.
- B The analyte was found in the associated blank as well as the sample.

All concentrations mg/kg.

Sludge Metals (mg/Kg) Compliance Sample Summary (continued)

	SL-12	SL-13	SL-14	SL-15	SL-17/18	SL-19	SL-20
	8/30/94	08/30/94	08/30/94	08/30/94	10/18/94	10/18/94	10/18/94
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selemium Silver Sodium Thallium Vanadium Zinc Cyanide	229	66.6	58.1	24.2	41.9 J	29.5 J	41.0 J

Notes:

- U The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.
- J The associated numerical value is an estimated quantity.
- UJ The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.
- B The analyte was found in the associated blank as well as the sample.

All concentrations mg/kg.

APPENDIX L SOIL INVESTIGATION

This appendix was originally presented in the Predesign Investigation Report (RETEC, 1993), Section 5.0.

5.0 SOIL INVESTIGATIONS

The work plan identified data gaps related to the design of the remedies for soils impacted by mixed contaminants and VOCs. The Predesign Investigation described in the work plan, the results of which are discussed in this section, was planned to gather information required to refine estimates of the horizontal and vertical limits of soil requiring remediation.

The work plan presented a conceptual model of the distribution of mixed contaminants in soil based on data collected during the RI and earlier investigations at the site. This model included an estimate of the limits of excavation and a discussion of the areas where additional data was needed to clarify uncertainties in the interpretation. This evaluation was used to select sample locations. Samples were placed most frequently near the boundaries of known areas where the concentrations of mixed contaminants exceed cleanup levels, especially where the amount of existing data was limited. In three locations, samples were collected from three different depths to help understand the relationship of chemical concentration and depth.

The work plan specified that existing data and data collected during the Predesign Investigation would be combined to prepare a new estimate of the limit of required cleanup. The evaluation strategy described included plotting and contouring chemical concentrations for each of the four types of mixed contaminant on a map of the site to provide an estimate of the areal distribution along with an evaluation of the vertical distribution of chemical concentrations. This information was to be combined to allow estimation of the volume of soil that will require remediation. The results of this evaluation are included in this section.

The data gaps, objectives and sampling strategy for VOC soils presented in the Predesign Work Plan were similar to those described above for mixed contaminant soils. The work plan showed an estimate of the extent of soils with concentrations of VOCs above the cleanup goals identified in the ROD based on data collected during the RI and other earlier investigations. These cleanup goals were developed based on literature values for the relationship between soil and ground water contaminant concentrations, known as partitioning coefficients. One objective of the Predesign Investigation was to perform a study to measure site-specific partitioning coefficients for the VOCs of interest at the site. These site-specific partitioning coefficients were then used in the flushing model presented in the FS to refine cleanup criteria for VOCs in soils at the Wildwood Property.

The other major goal in relation to VOC-impacted soils was to collect sufficient additional information to allow refinement of the distribution of VOC soil so that an *in situ* soil treatment system can be designed. Based on the data set presented in the Predesign Work Plan and data generated during the Predesign Investigation, soil concentrations for each criteria compound VOC have been plotted and contoured on site maps. Areas requiring remediation for VOCs in soils have been determined by comparing the distribution of criteria compound VOCs with the cleanup levels established in the partitioning study.

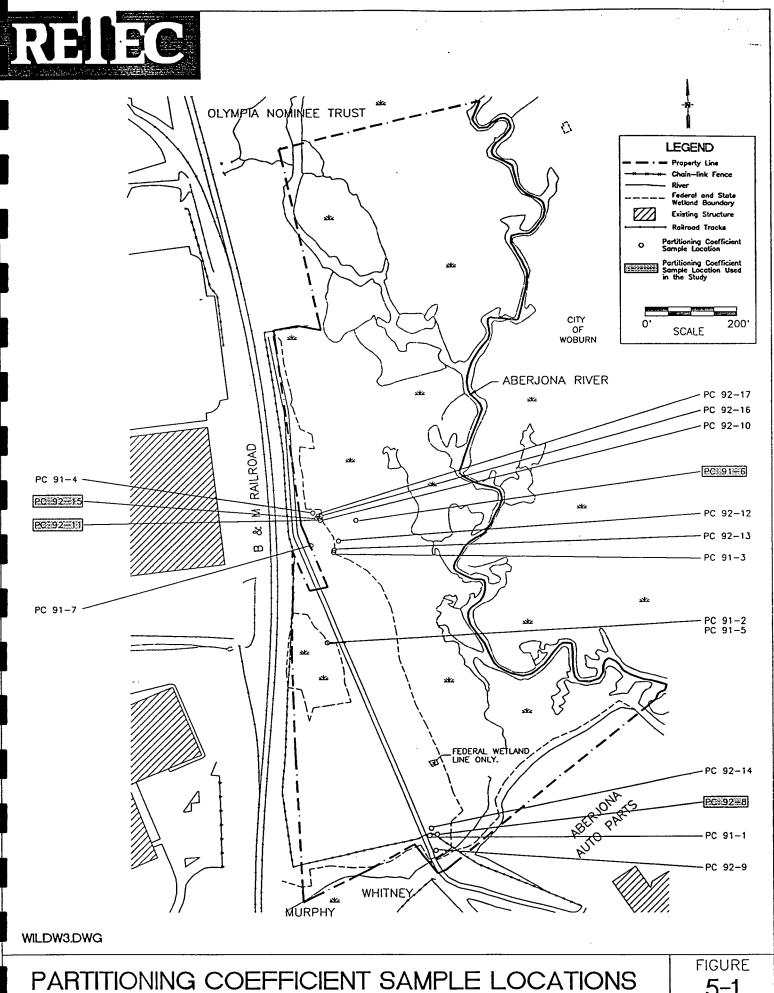
5.1 Field Activities

This section describes the field data collection activities performed during the Predesign Investigation including sample collection for the partitioning coefficient study and the mixed contaminant/VOC soil investigation.

5.1.1 Partitioning Coefficient Study

Soil samples for the partitioning coefficient study were collected in August and September 1992 during three sampling events. Sample sites were chosen to be representative of a variety of soil types, VOC concentrations, and organic carbon fractions (f_{∞}). Samples were chosen so that the VOCs of concern were represented at a range of concentrations. To screen for suitable sampling sites, a total of 17 preliminary soil samples were collected from different locations suspected to contain VOCs. Based on the analytical results of these screening samples, four samples were selected for the partitioning study. Sample locations are shown on Figure 5-1.

The first seven screening samples were collected in August 26 and 27, 1992 simultaneously for both VOC analysis and partitioning coefficient analysis. Samples PC91-1 through PC91-7 were collected in August 1992 from a depth of 0 to 24 inches. Soil for the partitioning coefficient study was collected using a hand auger with an eight-inch long stainless steel sleeve inserted; the steel sleeve was immediately capped at both ends upon removal from the borehole. Three stainless steel sleeves were collected from each borehole and submitted for potential partitioning coefficient study analysis by RETEC's Pittsburgh, Pennsylvania treatability laboratory pending results of the VOC analyses. Samples from the walls of each of the seven boreholes were collected using a hand trowel and stored in a glass sample jar for VOC screening analysis by Wadsworth Laboratories of Pittsburgh, Pennsylvania. Based on the results of the VOC analysis, sample PC91-6 was selected as the first sample to be run in the partitioning coefficient study. Other samples were not selected due to the lack of VOCs measured in the screening samples.



5-1

A second round of sampling took place on September 24, 1992 to identify additional locations suitable for the partitioning coefficient study. A total of six samples (PC92-8 through PC92-13) were collected and analyzed for VOCs. Samples were collected by removing the vegetative mat, and driving a six-inch long brass sleeve into the underlying sediments. The sleeve was then removed from the ground, capped, and sent to New England Testing Laboratory for VOC analysis. Based on the results of these analyses, sample locations PC92-8 and PC92-11 were selected to be sampled for the partitioning coefficient study. Again, other samples were not selected due to a lack of VOCs in the screening analysis. On September 30, 1992 these locations were revisited and sampled using a hand auger. As with sample PC91-6, the samples were collected in three, eight-inch long stainless steel sleeves inserted into the bucket of the hand auger. The sleeves were capped, placed on ice, and sent to the treatability laboratory for later compositing and analysis.

The third round of sampling to select the location for the fourth partitioning coefficient sample and a duplicate sample also took place on September 30, 1992. Four locations, PC92-14 through PC92-17, were sampled by driving a six-inch long brass sleeve into the exposed sediments. These samples were analyzed for VOCs, and, based on the results of these analyses, location PC92-15 was selected for the final partitioning coefficient study sample. This location was revisited on December 8, 1992 and sampled using the same methodologies as the previous partitioning coefficient samples. In this case, a second sample was collected from an adjacent borehole to serve as a duplicate sample.

5.1.2 Mixed/VOC Soil Investigation

For the soil characterization component of the Predesign Investigation, a total of 39 soil samples were collected from 17 borings. Samples were collected from depth intervals ranging from 0 to 72 inches below grade. Of the 39 samples, 21 soil samples were analyzed for VOCs, and 18 samples were analyzed for mixed contaminants. Table 5-1 provides a sample information summary and Figure 5-2 presents the sample locations.

During July and August 1992, 39 soil samples were collected using either a hand-coring device or a truck-mounted hollow stem auger to advance the sampling borehole. The hand-coring device consisted of an auger threaded to a T-shaped rod. For VOC sampling, an eight-

TABLE 5-1
Soil Sampling Summary
Wildwood Property
Wells G & H Superfund Site

Date/ Time of Collection	Sample Location	Sample Number	Sample Depth	Analysis	Notes
7/13/92 3:27	WSPD-SB91-1	01	16"-24"	ROD VOCs	Matrix Spike/Matrix Spike Duplicate
7/13/92 3:35		02	0"-24"	Mixed Contaminants	Matrix Spike/Matrix Spike Duplicate
7/13/92 4:30	WSPD-SB91-2	01	16"-24"	ROD VOCs	
7/14/92 9:40	WSPD-SB91-3	01	16"-24"	ROD VOCs	
7/14/92 9:54		02	0"-24"	Mixed Contaminants	
7/15/92 10:20	WSPD-SB91-4	01	16"-24"	ROD VOCs	EPA Split
7/15/92 11:15	WSPD-SB91-5	01	0"-24"	Mixed Contaminants	EPA Split
7/14/92 10:30	WSPD-SB91-6	01	16"-24"	ROD VOCs	
7/16/92 2:17	WSPD-SB91-7	01	16"-24"	ROD VOCs	EPA Split
7/16/92 2:35		02	40"-48"	ROD VOCs	
8/27/92 3:30		03	66"-72"	ROD VOCs	Samples collected with a split spoon sampler ASTM Method D1586.
7/16/92 1:30		04	0"-24"	Mixed Contaminants	EPA Split
7/16/92 2:55		05	24"-48"	Mixed Contaminants	
8/27/92 3:45		06	48"-72"	Mixed Contaminants	Samples collected with a split spoon sampler ASTM Method D1586.
7/14/92 3:08	WSPD-SB91-8	01	16"-24"	ROD VOCs	

TABLE 5-1 (Continued) Soil Sampling Summary Wildwood Property Wells G & H Superfund Site

Date/ Time of Collection	Sample Location	Sample Number	Sample Depth	Analysis	Notes
8/27/92 2:45		02	42"-48"	ROD VOCs	Samples collected with a split spoon sampler ASTM Method D1586.
8/27/92 3:15		03	66"-72"	ROD VOCs	Samples collected with a split spoon sampler ASTM Method D1586.
7/14/92 4:45		04	0"-24"	Mixed Contaminants	
7/15/92 11:55	WSPD-SB91-9	01	0"-24"	Mixed Contaminants	EPA Split
7/15/92 12:28		02	24"-48"	Mixed Contaminants	
8/27/92 4:00		03	48"-72"	Mixed Contaminants	Samples collected with a split spoon sampler ASTM Method D1586.
7/16/92 10:25	WSPD-SB91-10	01	16"-24"	ROD VOCs	
7/16/92 11:12		02	40"-48"	ROD VOCs	
8/27/92 2:30		03	66"-72"	ROD VOCs	MS/MSD; Samples collected with a split spoon sampler ASTM Method D1586.
7/16/92 11:35		04	0"-24"	Mixed Contaminants	
7/14/92 11:35	WSPD-SB91-11	01	16"-24"	ROD VOCs	
7/13/92 2:05	WSPD-SB91-12	01	16"-24"	ROD VOCs	
7/13/92 2:15		02	0"-24"	Mixed Contaminants	
7/15/92 2:53	WSPD-SB91-13	01	16"-24"	ROD VOCs	
7/15/92 3:13		02	0"-24"	Mixed Contaminants	

TABLE 5-1 (Continued) Soil Sampling Summary Wildwood Property Wells G & H Superfund Site

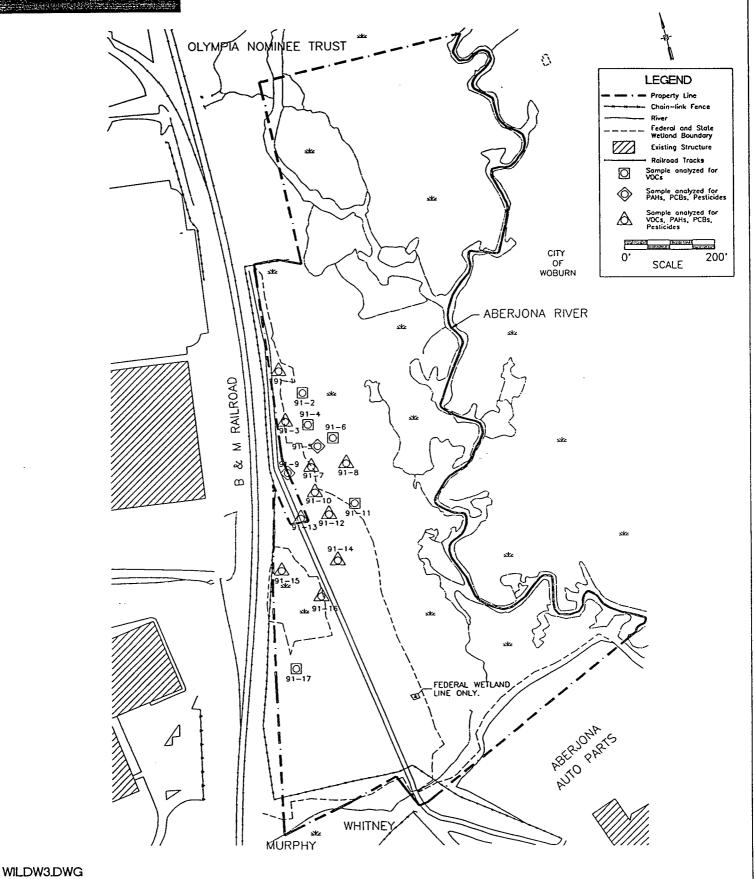
Date/ Time of Collection	Sample Location	Sample Number	Sample Depth	Analysis	Notes
7/15/92 3:48		03	24"-48"	Mixed Contaminants	
8/27/92 1:50		04	48"-72"	Mixed Contaminants	MS/MSD; Samples collected with a split spoon sampler ASTM Method D1586.
7/13/92 11:50	WSPD-SB91-14	01	16"-24"	ROD VOCs	Matrix Spike/Matrix Spike Duplicate
7/13/92 11:55		02	0"-24"	Mixed Contaminants	Matrix Spike/Matrix Spike Duplicate
7/14/92 12:35	WSPD-SB91-15	01	16"-24"	ROD VOCs	
7/14/92 12:50		02	0"-24"	Mixed Contaminants	
7/13/92 10:30	WSPD-SB91-16	01	16"-24"	ROD VOCs	
7/13/92 10:50		02	0"-24"	Mixed Contaminants	
7/13/92 9:55	WSPD-SB91-17	01	16"-24"	ROD VOCs	
7/16/92 10:25	WSPD-SB91-18	01	16"-24"	ROD VOCs	Duplicate of WSPD-SB-91-10-01
7/15/92 3:11	WSPD-SB91-19	01	0"-24"	Mixed Contaminants	Duplicate of WSPD-SB-91-13-02
7/14/92 6:20	WSPD-TB91-1			ROD VOCs	Trip Blank
7/16/92 4:15	WSPD-TB91-2		·	ROD VOCs	Trip Blank
7/16/92 4:15	WSPD-FB91-1			ROD VOCs	Field Blank
7/16/92 4:15	WSPD-FB91-2			Mixed Contaminants	Field Blank

TABLE 5-1 (Continued) Soil Sampling Summary Wildwood Property Wells G & H Superfund Site

Date/ Time of Collection	Sample Location	Sample Number	Sample Depth	Analysis	Notes
8/27/92 2:50	WSPD-SB91-20	01	42"-48"	ROD VOCs	Duplicate of SB91-8-02; Samples collected with a split spoon sampler ASTM Method D1586.
8/27/92 3:40	WSPD-SB91-21	01	48"-72"	Mixed Contaminants	Duplicate of SB91-7-06; Samples collected with a split spoon sampler ASTM Method D1586.
8/27/92 5:30	WSPD-TB91-3			ROD VOCs	Trip Blank
8/27/92 5:30	WSPD-FB91-3			Mixed Contaminants	Field Blank

NOTE: Samples collected with a split spoon sampler ASTM Method D1586.

DE LEFT



MIXED AND VOC SOIL SAMPLE LOCATIONS

FIGURE

5-2

inch long by two-inch I.D. stainless steel sleeve was inserted in the auger and the ends of the sample sleeve were closed with teflon-lined plastic caps immediately following removal from the auger to prevent the loss of VOCs. For mixed contaminant sampling, soil from a 24-inch interval was collected and composited in a stainless steel mixing bowl. A truck-mounted hollow-stem auger was used to drill to the required depth for those locations that could not be augured by hand, and a split-spoon sampler was driven to retrieve the sample by ASTM method D-1586. For VOC sampling, 6-inch brass sleeves were used in the split spoon to limit the loss of VOCs and samples were collected from a six-inch interval.

The extent of soil VOC contamination was evaluated from analysis of 21 soil samples collected from 15 different borehole locations on the Wildwood Property. The samples were analyzed for chloroform, tetrachloroethene, trichloroethene, trans-1,2-dichloroethene, and 1,1,1-trichloroethane following the EPA's CLP Statement of Work for Organic Compounds. Seventeen VOC samples were collected with a hand auger from eight-inch depth intervals including 15 from an interval of 16 to 24 inches and two from an interval of 40 to 48 inches. Four samples were collected with a split spoon from six-inch depth intervals including one from an interval of 42 to 48 inches and three from an interval of 66 to 72 inches.

Eighteen soil samples were also collected for analysis of mixed contaminants from 12 different borehole locations. The samples were analyzed for chlordane, 4,4-DDT, cPAHs, and PCBs following CLP Statement of Work for Organic Compounds. Fifteen samples were collected using a hand auger including 12 from an interval of 0 to 24 inches and three from an interval of 24 to 48 inches. A split-spoon sampler was used to collect three samples from an interval of 48 to 72 inches. Soil from each 24-inch interval was composited in a stainless steel mixing bowl. The soils were thoroughly mixed together in the bowl, and a 500-ml glass jar was then filled with a sub-sample of this soil composite submitted for laboratory analysis.

5.2 Soil Partitioning Study

Analytical procedures and results for samples collected during the partitioning coefficient study are summarized in this section. The partitioning coefficient study was conducted in compliance with Appendix II of the Consent Decree and in accordance with the procedures outlined in the Predesign Work Plan approved by EPA. A detailed report on the laboratory methodologies and data reduction are presented in the Partitioning Coefficient Study Report in Appendix C.

5.2.1 Partitioning Study Analytical Method

The soil-water partitioning tests involved sequential batch washing of the soil with buffered water. First, three aliquots of each soil were sent for analysis for the chemicals-ofinterest. This provided the initial soil concentration data. Then, for each test, a number of centrifuge tubes were filled with buffered water (200 mg NaHCO₃/L of distilled water) and a To inhibit microbial growth and prevent biodegradation of the known amount of soil. contaminants, mercuric chloride was added to each tube at 0.1% of the total mass of soil and water in the tube. Calcium chloride was also added to the tubes to aid in the settling of solids if needed. The tubes were then tumbled in a rotary extractor for 24 hours. After this contact time, the soil-water mixture was separated by placing the tubes in a centrifuge for 30 minutes at 12,500 rpm. The water phase was sampled and sent for analysis. Any remaining water was decanted and the tubes were refilled with buffered water. The appropriate amounts of mercuric chloride and calcium chloride were also added and the test was repeated. This was done until the desired number of washes was completed; three washes were performed for samples PC91-6, PC92-8, and PC92-11 and five washes were performed for samples PC92-15 and PC92-18. After the final wash, three aliquots of the soil were sent for analysis to provide the final soil concentration data. Section 2.0 of Appendix C discusses in greater detail the final experimental methods used.

Because of the highly volatile nature of the chemicals-of-interest in this study, several steps were taken to minimize volatilization. Soil samples were shipped from the field in sampling sleeves with zero head space and, once the sleeves were opened, each step of the experimental procedure was completed as quickly as possible to minimize the amount of time the soil and water samples were exposed to air. Centrifuge tubes were filled so that there was no head space and volatilization in the tubes was minimal. A technique using Leur-lok syringes to take water samples was developed to help minimize volatilization. These syringes prevented exposure of the samples to air until the moment of sampling. The syringes could be sent to the lab and the sample inserted directly into the analytical instrument for analysis. The procedures used to minimize volatilization are presented in detail in Section 2.2 of Appendix C.

5.2.2 Partitioning Study Results

As described above, four soil samples and one duplicate sample were included in the partitioning coefficient study. Before partitioning coefficient samples were collected, screening samples were collected from each proposed location and sent to the laboratory for VOC analysis to evaluate their suitability. The results of these screening samples are presented in Table 5-2.

Table 5-2
Partitioning Coefficient Study Screening Sample Results (PPM)
Wildwood Property
Wells G & H Superfund Site

Sample ID	TCE	PCE	trans-1,2-DCE	Chloroform	1,1,1-TCA
PC91-1	ND	ND	ND	ND	ND
PC91-2	0.1600	ND	ND	ND	ND
PC91-3	ND	ND	ND	ND	ND
PC91-4	0.0078	0.0024	0.0240	ND	ND
PC91-6	0.2800	0.2300	0.0500	ND	ND
PC91-7	0.0027	ND	ND	ND	ND
PC92-8	0.4220	0.1390	0.1200	ND	0.0170
PC92-9	ND	ND	ND	ND	ND
PC92-10	0.0120	0.0630	0.0520	ND	ND
PC92-11	1.2900	1.1200	1.2800	ND	ND
PC92-12	ND	ND	ND	ND	ND
PC92-13	ND	ND	ND	ND	ND
PC92-14	0.0450	0.0140	ND	ND	ND
PC92-15	1.7700	0.6070	0.4490	ND	ND
PC92-16	1.0600	0.3600	0.4050	ND	ND
PC92-17	0.0058	0.0380	0.1350	ND	ND

Note:

Sample PC91-5 was collected, but was never analyzed.

Based on these screening samples, partitioning coefficient samples were collected from four locations. Each sample was subjected three or five washes with water. Initial and final soil characterizations were performed and each wash was analyzed for the chemicals of interest.

These data were subsequently plotted, for each chemical of interest and each soil, in a graph of concentration of soil versus concentration in water. The slope of the resultant plot is the partitioning coefficient (K_p) for that chemical in that soil.

Chloroform

Of the four samples plus one duplicate used in this study, chloroform was found above detectable limits in two samples, PC91-6 and PC92-8. The chloroform concentration in the initial soil samples, final soil samples and in each wash are summarized in Table 5-3. These data were subsequently used to calculate a K_p for each of the two soil samples where chloroform was found. These results were then averaged and a resultant K_p of 5.22 L/kg was determined for chloroform for these soils.

Trans-1,2-Dichloroethene

Of the four samples plus one duplicate used in this study, trans-1,2-dichloroethene was found above detectable limits in two samples, PC91-6 and PC92-15. The trans-1,2-dichloroethene concentration in the initial soils, final soils and in each wash are presented in Table 5-4. These data were subsequently used to calculate K_p for the two samples where trans-1,2-dichloroethene was found. These results were subsequently averaged and a K_p of 7.8 L/kg was determined for trans-1,2-dichloroethene for these soils.

Tetrachloroethene

All five samples used in this study contained tetrachloroethene. Initial soil concentration varied from 0.005 to 43.3 ppm. The results of initial soil, final soil and aqueous concentrations are presented in Table 5-5. For each soil sample a K_p was determined. An average K_p of 14.8 L/kg was determined for tetrachloroethene.

TABLE 5-3
Results for Chloroform Analyses

	Initial Soil*	Final Soil*		Aqueous	Concentra	tions (ppb))
Sample	Concentration (ppm)	Concentration (ppm)	Wash 1	Wash 2	Wash 3	Wash 4	Wash 5
PC91-6	0.1871	0.0097	32.0	9.3	2.5	ND	ND
PC92-8	0.0273	0.0493	24.0	11.0	8.9	ND	ND
PC92-11	< 0.082	< 0.120	<5.0	<1.0	<1.0	ND	ND
PC92-15	< 0.086	< 0.101	<1.0	<50.0	<50.0	< 50.0	< 50.0
PC92-18	< 0.087	< 0.103	< 100	< 100	<100	<100	< 100

^{* -} Average of Three Analyses

ND - Not Determined

TABLE 5-4
Results for Trans-1,2-dichloroethene

	Initial Soil*	Final Soil*		Aqueous	Concentrat	ions(ppb)	
Sample	Concentration (ppm)	Concentration (ppm)	Wash 1	Wash 2	Wash 3	Wash 4	Wash 5
PC 91-6	0.0102	0.0021	2.7	1.2	<1.0	ND	ND
PC 92-8	< 0.0013	< 0.0014	<1.0	<1.0	<1.0	ND	ND
PC 92-11	< 0.082	< 0.120	<5.0	<1.0	<1.0	ND	ND
PC 92-15	< 0.0718	< 0.101	16**	< 50	< 50	< 50	< 50
PC 92-18	< 0.0873	< 0.103	< 100	<100	< 100	< 100	<100

^{* -} Average of Three Analyses

ND - Not Determined

^{** -} Laboratory reported total 1,2-dichloroethene value is estimated concentration of trans-1,2-dichloroethene.

TABLE 5-5
Results for Tetrachloroethene

	Initial Soil*	Final Soil*	Aqueous Concentrations(ppb)								
Sample	Concentration (ppm)	Concentration (ppm)	Wash 1	Wash 2	Wash 3	Wash 4	Wash 5				
PC 91-6	0.593	0.150	29.0	24.0	19.0	ND	ND				
PC 92-8	0.0054	0.0035	1.0	<1.0	<1.0	ND	ND				
PC 92-11	43.3	27.0	2000	1700	1300	ND	ND				
PC 92-15	19.0	3.27	1100	950	770	640	500				
PC 92-18	2.7	3.37	1000	720	540	440	270				

^{* -} Average of Three Analyses

ND - Not Determined

1,1,1-Trichloroethane

As shown in Table 5-6, 1,1-trichloroethane was not found above detectable limits for any samples used in this partitioning study. Therefore, no K_p value could be measured for 1,1,1-trichloroethane.

Trichloroethene

All five soil samples used in this study contained trichloroethene at initial soil concentrations which varied from 0.045 to 14.7 ppm. The results of analyses of initial and final soil and the water from each wash is presented in Table 5-7. These data were subsequently used to calculate a K_p for each soil sample. An average K_p of 7.66 L/kg was determined for trichloroethene in this soil.

Calculation of Soil Action Levels

For each sample the fraction of organic carbon (f_{∞}) was determined through total organic carbon analyses (TOC). These data are presented in Table 5-8. The f_{∞} varied from 1.67 to 2.77 percent. Using the following equation:

$$K_{p} = f_{\infty} \times K_{\infty}$$

determinations of K_p and K_∞ were made for each compound of interest using specific f_∞ data. Subsequently, K_p and K_∞ were averaged for each compound of interest. These data are compared to the data used in the Feasibility Study Model shown in Table 5-9. The Feasibility Study Model used reported K_∞ values found in the literature and an assumed f_∞ of 1.0 percent. From this information the model determined K_p . As shown in Table 5-9, the experimental data provides K_p values which are four times to an order of magnitude greater than K_p values used in the FS.

This will have a significant impact on the residual concentrations of these compounds which can be left in soil such that MCLs will not be exceeded in ground water. Table 5-10 summarizes soil cleanup criteria predicted from experimental data and compares them to the model predictions. The acceptable residual soil concentrations are four times to order of magnitude greater than what the model predicts. The one exception to this analysis was 1,1,1-trichloroethane. No data was developed for this compound. However, as shown in Table 5-8, the f_{∞} for these soils are approximately 2.0 percent versus the 1.0 percent use in the model.

TABLE 5-6
Results for 1,1,1-trichloroethane

	Initial Soil*	Final Soil*	Aqueous Concentrations(ppb)							
Sample	Concentration (ppm)	Concentration (ppm)	Wash 1	Wash 2	Wash 3	Wash 4	Wash 5			
PC 91-6	< 0.0012	< 0.0035	<1.0	<1.0	<1.0	ND	ND			
PC 92-8	< 0.0013	< 0.0014	<1.0	<1.0	<1.0	ND	ND			
PC 92-11	< 0.082	< 0.120	<5.0	<1.0	<1.0	ND	ND			
PC 92-15	< 0.086	< 0.101	<1.0	< 50	< 50	< 50	< 50			
PC 92-18	< 0.087	< 0.103	< 100	< 100	<100	< 100	<100			

^{* -} Average of Three Analyses

ND - Not Determined

TABLE 5-7
Results for Trichloroethene

	Initial Soil*	Final Soil*	Aqueous Concentrations(ppb)								
Sample	Concentration (ppm)	Concentration (ppm)	Wash 1	Wash 2	Wash 3	Wash 4	Wash 5				
PC 91-6	0.130	0.0167	21.0	7.5	4.3	ND	ND				
PC 92-8	0.045	0.066	25.0	15.0	11.0	ND	ND				
PC 92-11	14.7	4.030	1100	620	400	ND	ND				
PC 92-15	7.5	0.557	780	340	200	130	96				
PC 92-18	1.33	0.600	380	240	180	140	100				

^{* -} Average of Three Analyses

ND - Not Determined

TABLE 5-8 Determination of f_{oc}

SAMPLE	EXPERIMENTAL f _{oc} (%)
PC91-6	2.00
PC92-8	1.67
PC92-11	2.03
PC92-15	2.40
PC92-18	2.77

COMPOUND	COEFFI	FITIONING CIENT STUDY EXIMENTAL RMINATION	FEASIBILITY STUDY MODEL DETERMINATION (Based on Literature) (Values of k _{sc})			
	K _∞	K _p	K _∞	K,		
CHLOROFORM	318.1	5.22	31.0	0.31		
TRANS-1,2 DICHLOROETHENE	451.6	7.8	59.0	0.59		
TETRACHLOROETHENE	712.7	14.8	364.0	3.64		
1,1,1 - TRICHLOROETHANE	ND	ND	152.0	1.52		
TRICHLOROETHENE	374.6	7.66	126.0	1.26		

ND - 1,1,1-trichloroethene was not detected in any samples used for the partitioning coefficient study

TABLE 5-10
Experimentally Derived Site-Specific Soil Cleanup Criteria

COMPOUND	EXPERIMENTALLY PREDICTED SOIL ACTION LEVEL (ppm)	MODEL PREDICTED SOIL ACTION LEVEL (ppm)
CHLOROFORM	1.052	0.063
TRANS-1,2 DICHLOROETHENE	1.100	0.083
TETRACHLOROETHENE	0.149	0.037
1,1,1 -TRICHLOROETHANE	1.226	0.613
TRICHLOROETHENE	0.077	0.013

Thus, for 1,1,1-trichloroethane an action level was determined using reported literature values of K_{∞} and a 2.0 percent f_{∞} as input to the Feasibility Study Model.

5.3 Mixed Contaminant/Voc Soil Investigation

Table 5-11 presents a summary of analytical results for the soil samples analyzed for mixed contaminants and VOCs during the Predesign Investigation. The evaluation presented below uses this data, along with data from earlier investigations presented in the Predesign Work Plan. Table 2-4 presents mixed contaminant and VOC soil analytical data from earlier investigations used in the data evaluation.

5.3.1 Sample Statistics

Table 5-12 presents summary statistics for the data from the RI and earlier investigations used in the evaluation of the extent of mixed contaminants and VOCs in soils at the Wildwood Property. Thirty-five samples collected from 20 soil borings were analyzed for at least one mixed contaminant during the RI and earlier investigations. Twenty-three percent of the samples at 35% of the boring locations had at least one mixed contaminant above the ROD specified cleanup level. Sixty-four samples collected from forty-five soil borings were analyzed for VOCs. Forty-seven percent of the samples from 42% of the borings had VOCs above the cleanup levels established by the partitioning coefficient study.

Table 5-13 presents summary statistics for data from the Predesign Investigation used in the evaluation described below. The goal of the Predesign Investigation soil sampling effort was to refine the limits drawn from the RI data by placing soil samples in locations where data gaps were identified in the Predesign Work Plan. Sample depths ranged from 0 to 6 feet. Eighteen samples collected from twelve borings were analyzed for mixed contaminants. Seventeen percent of the samples collected from 17% of the borings had concentrations of at least one mixed contaminant above cleanup criteria. Twenty-one soil samples, collected from fifteen borings were analyzed for VOCs. Fourteen percent of the samples from 13% of the borings had at least one VOC above cleanup criteria established during the partitioning coefficient study.

Table 5-14 presents the summary statistics for data from the combined data set for both Predesign Investigation and previous investigations. Statistical analysis of data from previous investigations, the Predesign Investigation data, and the combined data sets establish consistencies in the characteristics of mixed contaminant and VOC soil concentrations on the Wildwood Property. Eighty-six soil samples were collected during these investigations.

Table 5-11 Summary of Soil Analytical Results Wildwood Property Welk G & H Superfund Site

Sample Number Sampling Date Sample Depth	Cleanup Criteria (mg/kg)	SB91-1-01 07/13/92 16*-24*	\$B91-1-02 07/13/92 0°-24*	\$B91-2-01 07/13/92 16*-24*	SB91-3-01 07/14/92 16*-24*	\$B91=3=02 07/14/92 0°=24°	SB91-4-01 07/15/92 16*-24*	\$B91-5-01 07/15/92 0°+24°	SB91-6-01 07/14/92 16*-24*	\$B91-7-01 07/16/92 16'-24'	\$891-7-02 07/16/92 40°-48°	\$B91-7-03 \$27992 66*-72*
VOLATILES (mg/kg) Chlorofrom Tetrachloroethene Trkbloroethene trans-1,2-Dkbloroethene 1,1,1-Trkbloroethane	1.052 * 0.149 * 0.077 * 1.100 * 1.226 *	< 0.006 U < 0.006 U 0.004 J < 0.006 U < 0.006 U		< 0.007 U < 0.007 U 0.004 J < 0.007 U < 0.007 U	< 0.006 U < 0.006 U 0.006 U < 0.006 U < 0.006 U		< 0.021 U < 0.021 U 0.045 < 0.021 U < 0.021 U		< 0.015 U < 0.015 U 0.046 < 0.015 U < 0.015 U	< 0.04 U 0.85 0.29 < 0.04 U < 0.04 U	< 0.006 U 0.02 0.009 < 0.006 U < 0.006 U	 0.012 U 0.012 U 0.012 U 0.012 U 0.012 U 0.012 U
PESTICIDES (mg/kg) alpha - Chlordane gamma - Chlordane 4.4 - DDT TOTAL	6.14 (total) 23.5		< 0.0021 U < 0.0021 U < 0.0041 U			< 0.012 U < 0.012 U < 0.024 U		< 0.0047 U < 0.0047 U < 0.0091 U				
PCBs (mg/kg) TOTAL cPAHS (mg/kg)	1.04		0			1.3		0.8				
TOC (mg/kg)	0.69	22,000	0.209	43,000	4,500	0	350,000	0	12,000	72,000	15,000	2,200

						Dup. of SB91-7-0	5		Dup. of SB91-8-0	2		
Sample Number	Cleasup	SB91-7-04	SB91-7-04RE	SB91-7-05	SB91-7-06	SB91-21-01	SB91-8-01	SB91-8-02	\$B91-20-01	\$B91-8-03	SB91-08-04	SB91-08-04RE
Sampling Date	Criteria	07/16/92	07/16/92	07/16/92	08/27/92	08/27/92	07/14/92	08/27/92	08/27/92	08/27/92	07/14/92	07/14/92
Sample Depth	(mg/kg)	0"+24"	0"24"	24*-48*	48*-72*	48"-72"	16"-24"	42*-48*	42"-48"	66°+72°	0*+24*	0*+24*
VOLATILES (mg/kg)												
Chlorofrom	1.052 *	1 1	1	}			< 0.017 U	< 0.012 U	< 0.062 U	< 0.012 U	1	1
Tetrachloroethene	0.149 *	1		1			< 0.017 U	0.033 J	0.14 J	0.004 J		1
Trichloroethene	0.077 •	1 1		1		1	0.45	0.052 J	0.48 J	0.01 J		1
trans-1,2-Dichloroethene	1.100 •		1			1	< 0.017 U	< 0.012 U	< 0.062 U	0.053		1
1,1,1-Trichloroethane		1	1	1			< 0.017 U	< 0.012 U	< 0.062 U	< 0.012 U		1
i	1 1		1	1		1		}	1			! !
PESTICIDES (mg/kg)	1.]		1			1 1			
alpha-Chlordane	6.14 (total)	< 0.0028 U	1	< 0.0022 U	< 0.0020 U	0.0043 J	1				< 0.0025 U	
gamma-Chlordane		< 0.0028 U	1	< 0.0022 U	< 0.0020 U	< 0.0021 U		1 1			< 0.0025 U	
4,4-DDT	23.5	< 0.0054 U	l i	< 0.0043 U	< 0.0039 U	< 0.0 U		1	1		< 0.0049 U	1
TOTAL	1 1	0	1	0	0	0.0043			1 1	1	0	1
	1 1			1	1	1		1	ł 1			
PCBs (mg/kg)	1 1	!!!	1	1				1	1	1		1
TOTAL	1.04	0.29	1	0	0	0.16		1	1	1	0	1
	1 1			1 1		1		[[1 1		1 i	1 1
cPAHS (mg/kg)	1		1					1	1			
TOTAL	0.69	0.063	0.121	0	0	0		1	1	1	0	0
	1									1	1	1
TOC (mg/kg)	<u> </u>	L.,			L	L	17,000	14,000	22,000	3,900		

^{* –} as established by laboratory soil partitioning study Qualifiers: U = non-detected; J = estimated value

Table 5-11 (cont.) Summary of Soil Analytical Results Wildwood Property Wells G & H Superfund Site

Dup. of \$B91-10-01 Sample Number Cleanup SB91-9-01 \$B91-9-02 SB91-9-02RE SB91-9-03 SB91-10-01 8B91-18-01 SB91-10-02 8B91-10-03 SB91-10-04 \$B91-10-04RE \$B91-11-01 Sampling Date Criteria 07/15/92 07/15/92 07/15/92 08/27/92 07/16/92 07/16/92 07/16/92 08/27/92 07/16/92 07/16/92 07/14/92 Sample Depth (mg/kg) 0"-24" 24"-48" 48"-72" 16*-24* 16"-24" 40*-48* 66*-72* 0"+24" 0°-24° 16"-24" VOLATILES (mg/kg) Chlorofrom 1.052 * 0.006 U 0.006 U 0.006 U 150 U 0.006 U Tetrachloroethene 0.149 * 0.003 J 0.002 J | < 0.006 U 150 U 0.006 U Trichlorcethene 0.077 * 0.035 0.025 0.017 830 J 0.003 J trans-1,2-Dichloroethene 1.100 * 0.006 U 0.006 U 0.006 U 150 U 0.006 U 1.1.1-Trichloroethane 1.226 * 0.006 U 0.006 U 0.006 U 150 U 0.006 U PESTICIDES (mg/kg) alpha-Chlordane 6.14 (total) 0.16 U 0.082 U 0.0020 U 0.0020 U gamma-Chlordane 0.16 U < 0.082 U 0.0020 U 0.0020 U 44-DDT 23.5 0.31 U 0.16 U 0.0039 U 0.0042 TOTAL 0 0 0 0.0042 PCBs (mg/kg) TOTAL 1.04 250 60 0.041 0 cPAHS (mg/kg) TOTAL 0.69 0.054 0 0 0 0 0 TOC (mg/kg) 10,000 11,000 1,100 6,400 21,000

·							Dup. of \$B91-13-	02				
Sample Number	Cleanup	SB91-12-01	SB91-12-02	SB91-13-01	SB91-13-02	SB91-13-02RB	SB91-19-01	SB91-13-03	SB91-13-04	\$B91-14-01	\$891-14-02	\$B91-15-01
Sampling Date	Criteria	07/13/92	07/13/92	07/17/92	07/15/92	07/35/92	07/15/92	07/15/92	08/27/92	07/13/92	07/13/92	07/14/92
Sample Depth	(mg/kg)	16*+24*	0°-24°	16"-24"	0°-24°	0"-24"	0*-24*	24"-48"	48*-72*	16*+24*	0"+24"	16"+24"
VOLATILES (mg/kg)												
Chlorofrom	1.052 •	< 0.006 U		< 0.006 U								
Tetrachloroethene	0.149	< 0.006 U		< 0.006 U						< 0.006 U		< 0.007 U
Trichloroethene	0.077	0.023		< 0.006 U]			< 0.006 U		< 0.007 U
trans-1,2-Dichloroethene	1.100 •	< 0.006 U		< 0.006 U		' l]			< 0.006 U		< 0.007 U < 0.007 U
1,1,1-Trichloroethane	1.226 •	< 0.006 U		< 0.006 U		1				< 0.006 U		< 0.007 U
1					1 1					"""		" " "
PESTICIDES (mg/kg)	1 1	[1 1									
alpha-Chlordane	6.14 (total)		< 0.0019 U		< 0.0018 U	.	< 0.0018 U	< 0.0020 U	< 0.0020 U	1	< 0.002 U	
gamma-Chlordane	`		< 0.0019 U		< 0.0018 U	1	< 0.0018 U	< 0.0020 U	< 0.0020 U		< 0.002 U	
4,4-DDT	23.5		< 0.0038 U		0.013 J	j	< 0.0035 U	< 0.0040 U	< 0.0039 U		< 0.0038 U	1 1
TOTAL	1	1. 1	0		0.013	1	0	0	0		0	
	1	1	1						1 1		i i	
PCBs (mg/kg)	1	l l	1	1			l i		1	l i		1
TOTAL	1.04		0	1	0		0.12	0	0	1		1
	l.			1	1 .		ļ ;	1	1 1	i		1
cPAHS (mg/kg)			1				1		1			1
TOTAL	0.69		0 [1	0	0	0	0	0		0	
			1	1		1 1		1			1	
TOC (ng/kg)		15,000		750	L			L	L	2,800	L	21,000

^{• -} as established by laboratory soil partitioning study Qualifiers: U = non-detected; J = estimated value

Table 5-11 (cont.) Summary of Soil Analytical Results Wildwood Property Wells G & H Superfund Site

Sample Number Sampling Date Sample Depth	Cleanup Criteria (mg/kg)	1000000	391-15-02 07/14/92 0*-24*		91-16-01 77/1 3/92 16*-24*	8	891-16-02 07/13/92 0*-24*	SB91-16-02RB 07/13/92 07-24*		91-17-01 77/13/92 16°-24°
VOLATILES (mg/kg) Chlorofrom Tetrachloroethene Trichloroethene trans-1,2-Dichloroethene 1,1,1-Trichloroethane	1.052 ° 0.149 ° 0.077 ° 1.100 ° 1.226 °			V V V V	0.006 U 0.006 U 0.006 U 0.006 U				< < < < <	0.006 U 0.006 U 0.002 J 0.006 U 0.006 U
PESTICIDES (mg/kg) alpha-Chlordane gamma-Chlordane 4,4-DDT TOTAL	6.14 (total) 23.5	V V V	0.0025 U 0.0025 U 0.0049 U 0			V V V	0.0081 U 0.0081 U 0.016 U			
PCBs (mg/kg) TOTAL	1.04		0				0			
cPAHS (mg/kg) TOTAL	0.69		0				0.061	0.056		
TOC (mg/kg)					16,000					18,000

^{• -} as established by laboratory soil partitioning study Qualifiers: U = non-detected; J = estimated value

Table 5-12 Statistical Data Summary of Soil Samples Collected During The RI and Previous Site Investigations Wells G&H Superfund Site Woburn, MA

	Clean Up					
	Criteria	No. of	No. Detected		Median	Geometric
	ppm	Analyses	Above CUC	Conc. ppm	Conc. ppm	Mean ppm
			Surface	Samples		
Chloroform	1.05	1	0	0.006	0.006	0.006
Tetrachloroethene	0.149	7	1	36.0	0.004	0.018
Trichloroethene	0.077	7	2	18.0	0.004	0.069
1,2-Dichloroethene	1.10	9	1	21.0	0.006	0.016
1,1,1-Trichloroethane	1.23	7	1	46.0	0.007	0.025
cPAHs	0.690	2	0	0.336	0.336	0.336
Chlordane	6.14	3	2	40,000.	18,000.	224.
4,4-DDT	23.5	2	0	0.210	0.600	0.152
PCBs	1.04	0	0	0.203	0.203	0.203
			Samples Fro	m 0 to 2 Fee	t	
Chloroform	1.05	18	0	0.006	0.006	0.006
Tetrachloroethene	0.149	23	4	6.60	0.004	0.015
Trichloroethene	0.077	28	14	13.0	0.100	0.061
1,2-Dichloroethene	1.10	29	1	5.48	0.006	0.009
1,1,1—Trichloroethane	1.23	21	0	0.007	0.007	0.007
cPAHs	0.690	19	5	29.9	0.336	0.621
Chlordane	6.14	7	2	23.0	0.040	1
4,4-DDT	23.5	5	0 3	1.10	0.032	0.097
PCBs	1.04	13	· · · · · · · · · · · · · · · · · · ·	130.	0.203	0.628
(management)				m 2 to 4 Fee		
Chloroform	1.05	15	0	0.830	0.006	0.014
Tetrachloroethene	0.149	23	9	130.	0.017	0.079
Trichloroethene	0.077	27	14	89.0	0.123	0.160
1,2-Dichloroethene	1.10	26	8	8.50	0.006	0.039
1,1,1—Trichlorocthane cPAHs	1.23 0.690	21 14	0	0.007 3.00	0.007	0.007
Chlordanc	6.14	3	1 0	0.016	0.336 0.016	0.392 0.016
4,4-DDT	23.5	4	0 .	0.010	0.010	0.010
PCBs	1.04	9	0	0.203	0.032	0.203
			All Sa	imples		
Chloroform	1.05	34	0	0.830	0.006	0.009
Tetrachloroethene	0.149	53	14	130.	0.004	0.069
Trichloroethene	0.077	62	30	89.0	0.068	0.094
1,2-Dichloroethene	1.10	64	10	21.0	0.006	0.022
1,1,1-Trichloroethane	1.23	49	1	46.0	0.007	0.013
cPAHs	0.690	35	6	29.90	0.336	0.499
Chlordane	6.14	13	4	40,000.	0.042	0.664
4,4-DDT	23.5	11	0	1.10	0.032	0.070
PCBs	1.04	22	3	130.	0.203	0.395

Notes: Detection limits were not available for the RI data. Samples below detection limit were given a value of one half the average detection limit reached during the Predesign Investigation.

Table 5-13 Statistical Data Summary of Predesign Investigation Soil Samples Wells G&H Superfund Site Woburn, MA

·	Clean Up					
	Criteria		No. Detected		Median	Geometric
	ppm	Analyses	Above CUC			Mean ppm
			Samples Fro	m 0 to 2 Fee	t .	
Chloroform	1.05	16	0	0.020	0.003	0.004
Tetrachloroethene	0.149	16	1	0.850	0.003	0.005
Trichloroethene	0.077	16	2	0.450	0.003	0.012
1,2-Dichloroethene	1.10	16	0	0.020	0.003	0.004
1,1,1-Trichloroethane	1.23	16	0	0.020	0.003	0.004
cPAHs	0.690	13	0	0.209	0.125	0.180
Chlordane	6.140	13	0	0.160	0.002	0.004
4,4—DDT	23.5	13	0	0.155	0.004	0.004
PCBs	1.04	13	2	250.	0.420	0.434
			Samples Fro	m 2 to 4 Fee	t	
Chloroform	1.05	4	0	0.031	0.004	0.010
Tetrachloroethene	0.149	4	0	0.140	0.027	0.027
Trichloroethene	0.077	4	1	0.480	0.035	0.044
1,2-Dichloroethene	1.10	4	0	0.031	0.009	0.005
1,1,1-Trichloroethane	1.23	4	0	0.031	0.009	0.005
cPAHs	0.690	3	0	0.294	0.287	0.287
Chlordane	6.140	3	0	0.082	0.002	0.007
4,4—DDT	23.5	3 3	0	0.080 60.	0.002 0.172	0.007
PCBs	1.04	3	1		· · · · · · · · · · · · · · · · · ·	1.10
			Samples Fro	m 4 to 6 Fee		
Chloroform	1.05	2	0	0.006	0.006	0.006
Tetrachloroethene	0.149	2	0	0.006	0.005	
Trichloroethene	0.077	3	1	830.	0.004	0.027
1,2-Dichloroethene	1.10	2	0	0.006	0.005	0.005
1,1,1—Trichloroethane	1.23	2	0	0.006	0.005 0.385	0.005 0.385
cPAHs	0.690	3	0	0.385 0.002	0.363	0.363
Chlordane	6.140	3 3	0 0	0.002	0.002	0.002
4,4-DDT PCBs	1.04	3	0	0.004		1
I CDS	1.04	<u> </u>	·		0:130	0.130
				amples		
Chloroform	1.05	22	0	0.031	0.003	1
Tetrachloroethene	0.149	22	1	0.850		1
Trichloroethene	0.077		4	830.	0.003	1
1,2-Dichloroethene	1.10	22	0	0.031	0.003	
1,1,1—Trichloroethane	1.23	22	0	0.031	0.003	0.004
cPAHs	0.690	1	0	0.385	1	
Chlordane	6.140	1	0	0.160 0.155	L	1 3
4,4-DDT	23.5	19 19	0 3	250.	0.004	1 1
PCBs	1.04	13	<u> </u>	230.	0.130	0.403

Table 5-14 Statistical Data Summary of All Soil Samples Wells G&H Superfund Site Woburn, MA

	Clean Up					
•	Criteria		No. Detected		Median	Geometric
·	ppm	Analyses	Above CUC	Conc. ppm	Conc. ppm	Mean ppm
	Samples From 0 to 2 Feet					
Chloroform	1.05	34	0	0.020	0.004	0.005
Tetrachloroethene	0.149	39	5	6.60	0.004	0.005
Trichloroethene	0.077	44	16	13.0	0.045	0.034
1,2-dichloroethene	1.10	45	1	5.48	0.006	0.007
1,1,1-Trichloroethane	1.23	37	0	0.020	0.007	0.006
cPAHs	0.690	32	5	29.9	0.336	0.375
Chlorodane	6.140	20	2	23.0	0.002	0.016
4,4-DDT	23.5	18	0	1.10	0.004	0.010
	1.04	26	5	130.	0.300	0.514
	Samples From 2 to 4 Feet					
Chloroform	1.05	19	0	0.830	0.006	0.011
Tetrachloroethene	0.149	27	9	130.	0.004	0.067
Trichloroethene	0.077	31	15	89.0	0.004	0.135
1,2-dichloroethene	1.10	30	8	8.50	0.009	0.030
1,1,1-Trichlorocthane	1.23	25	0	0.031	0.007	0.008
cPAHs	0.690	17	1	3.00	0.336	0.462
Chlorodane	6.140	6	0	0.082	0.016	0.006
4,4-DDT	23.5	7	0	0.080	0.032	0.017
PCBs	1.04	12	11	60.0	0.203	0.195
	All Samples					
Chloroform	1.05	56	0	0.830	0.006	0.006
Tetrachloroethene	0.149	75	15	130.	0.004	0.036
Trichloroethene	0.077	85	34	830.	0.004	0.057
1,2-dichloroethene	1.10	86	10	21.0	0.006	0.013
1,1,1-Trichloroethane	1.23	71	1	46.0	0.007	0.008
cPAHs	0.690	54	6	29.9	0.336	0.333
Chlorodane	6.140	32	4	40,000.	0.002	0.334
4,4-DDT	23.5	30	0	1.10	0.004	0.035
PCBs	1.04	41	6	250.	0.203	0.429

Notes: Detection limits were not available for the RI data. Samples below detection limit were given a value of one half the average detection limit reached during the Predesign Investigation.

Chloroform and 4,4-DDT were not found above the cleanup criteria. 1,1,1-trichloroethane was only found above cleanup criteria in one location. Only six samples collected during the Predesign Investigation contained concentrations of compounds above cleanup criteria. Of the compounds detected above criteria, trichloroethene was encountered most frequently (40% of the samples). Tetrachloroethene and 1,2-dichloroethene were encountered in 20% and 11% of the samples. In all cases, when tetrachloroethene and dichloroethene were encountered, trichloroethene was also encountered above criteria. Chlordane, cPAHs, and PCBs were encountered above criteria at lesser frequency, 13%, 11% and 15%, respectively.

Combined data from the RI and Predesign Investigation show several orders of magnitude difference between maximum concentrations and minimum concentrations. The geometric mean concentrations were comparable to the median concentrations while the arithmetic mean was greater than the median by an order of magnitude. This suggests that the data is log normally distributed.

When the statistical analysis of the data set was evaluated with respect to sample location, three general trends in the spatial variability of impacted soil were observed. First, only 28% of sample locations showed contamination above cleanup criteria. Second, these locations were usually within fifty feet of the site road. Third, sample locations with soil impacted above cleanup criteria were generally separated by sample locations where contamination was not detected. These trends indicate that soil contamination occurred at discrete surface point sources with concentrations decreasing exponentially with distance from those points.

5.3.2 Quality Assurance Samples

Field duplicates of soil samples were collected to check the precision of the sampling and analytical procedures. Field duplicates were collected at a frequency of 10% of the total amount of field samples taken. Four field duplicates were collected during the program. The comparison between field samples and duplicates was performed as part of the laboratory data validation program, which followed U.S. EPA Region I guidelines for evaluating organic analysis. The criteria for duplicate samples is the relative percent difference (RPD) for all compounds detected in soil must be less than 50%. If any results have a RPD greater than 50% in soil, estimate the positive results (J) for that compound in both samples.

Table 5-15 presents the results of duplicate sample analysis and evaluation. The RPD calculated for samples and duplicates from locations SB91-7, SB91-8 and SB91-13 are greater than 50%. Therefore, all detected compounds in both field and duplicate samples were reported as estimates. The percent difference calculated for the field sample and duplicate collected from

location SB91-10 was below 50%. Compounds analyzed, but not shown in Table 5-15, were not detected in these samples.

Blank samples were used during the mixed/VOC soil investigation in an effort to detect outside sources of sample contamination that may affect the reliability of the analytical results. Trip blanks were used to detect possible contamination during the handling and transport of field samples. Trip blanks were prepared and analyzed at a rate of one sample per laboratory shipment. Field blanks were collected to detect possible cross-contamination or environmental contamination of field samples. Field blanks were generated from deionized or distilled rinse water during decontamination of sampling equipment. Field blanks were collected at a frequency of one for every 20 field samples collected. Results from the trip and field blank analysis showed no detectable concentrations of any compounds analyzed for in any of the blanks.

5.4 Data Evaluation

5.4.1 Evaluation Methods

A first attempt at contouring contaminant concentrations was made using GEO-EAS, a geostatistical modeling software developed by the EPA at the Environmental Monitoring Systems Laboratory in Las Vegas, Nevada. The software produces two dimensional contour maps from a normally distributed data set, using a geostatistical method called kriging. The first step in the kriging process is to generate a plot of concentration variance versus distance between sample locations for all possible pairs of samples in the data set. A line of best fit, usually spherical or exponential, is then drawn through the plotted data. This line is used to model the spatial variability of the concentration data. Contaminant concentrations are determined at unsampled locations by using the variogram model to weigh the influence of the surrounding samples. The variogram models generated by the software are based on the assumption that contamination is from a single source and concentration variance increases with horizontal distance between samples.

Variogram plots of the Wildwood Property combined data set did not match this trend. Concentration variance tended to increase with distance, then decrease as samples with concentrations from different point sources were being paired in the variogram plot. This behavior supports the assumptions drawn from the statistical analysis of the data set. Data taken from discrete areas around a sample location with a high concentration of VOCs or mixed contaminants tended to have log normal concentration frequency distribution.

TABLE 5-15 Field Duplicate Mixed/VOC Soil Results (concentrations in mg/kg) Wildwood Property Wells G & H Superfund Site

857.33.37.4 .	SB91-8-02 8/27/92	Transport in the contract of t	II dilianda anno de caracida.	SB91-10-01 7/16/92			SB91-13-02 7/15/92	*********	1.050.100.000.000.000.1004	SB91-7-06 8/27/92		
Volatile Organics* Tetrachloroethene Trichloroethene	0.033 0.052	0.140 0.480	124 161	0.003J 0.035	0.002J 0.025	40 33	NA NA	NA NA		NA NA	NA NA	
Pesticides* 4,4-DDT Alpha chlordane PCBs*	NA NA	NA NA		NA NA	NA NA		0.013 0.0018U	0.0035U 0.0018U	115	0.0039U 0.002U	0.004U 0.0043	73
Aroclor 1254	NA	NA		NA	NA		0.036U	0.120	107	0.039U	0.160	121

[•] Detected Compounds

NA: Not Analyzed

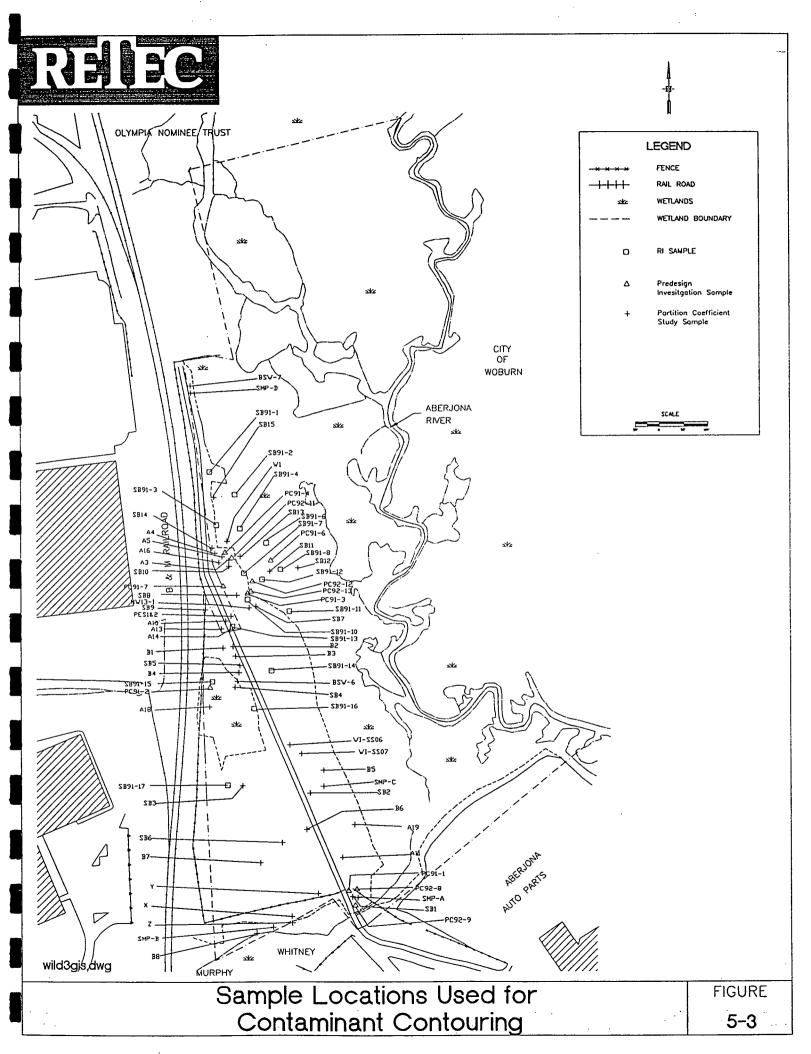
Rather than breaking down areas of contamination until use of the geostatistical model was appropriate, linear contouring techniques using transformed values of concentrations (i.e., logarithm of the concentration), was used to establish the limits of soil impacted above the cleanup criteria. This method was consistent with the exponential decreases in concentrations observed in areas of high sample density. Logarithmic contours of concentration values for each of the nine contaminants of concern were generated with the Softdesk Digital Terrain Modeling (DTM) contouring software. The software created a triangulated irregular network (TIN) from the combined data set and used the TIN to interpolate contours of the concentration data.

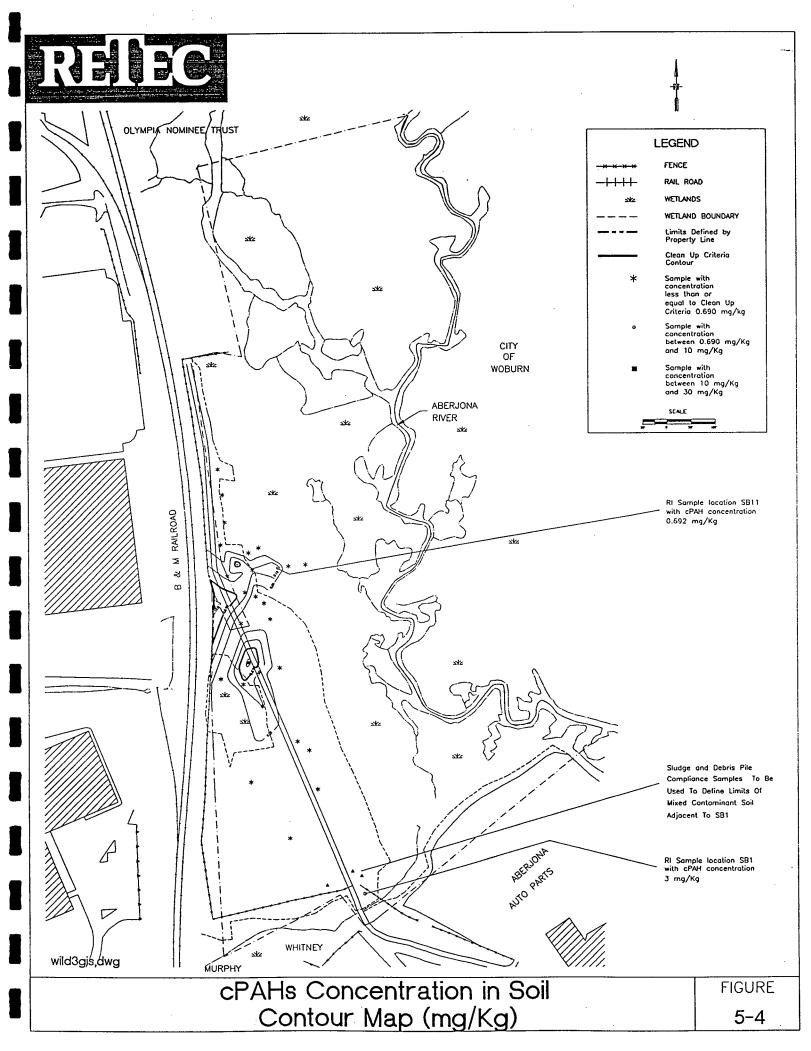
5.4.2 Mixed Contaminant Soil Evaluation

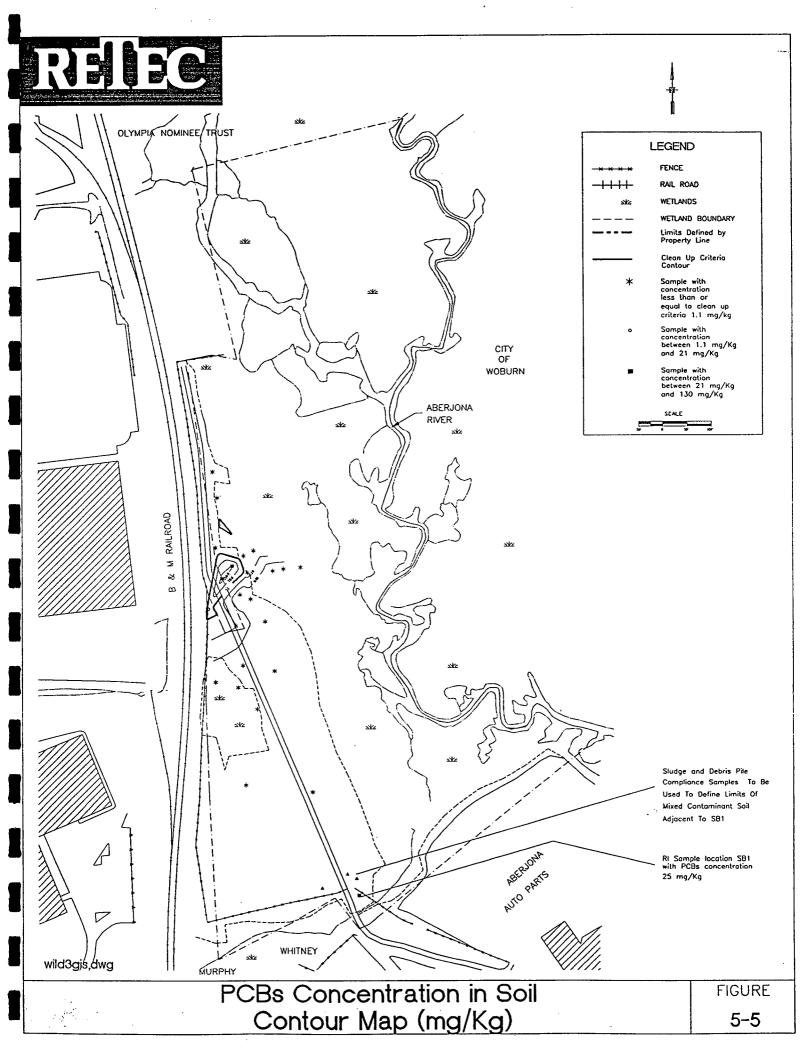
The horizontal limit of mixed contaminant soil above cleanup criteria was established with data from the Predesign Investigation, the RI, and earlier investigations. Figure 5-3 shows the sample locations used to determine the limits. A database was created containing the coordinates for each sample location and maximum concentrations of the four criteria compounds found at that sample location. Some sample locations had several samples collected from between 0 and 6 feet below the ground surface. In that case the highest concentration measured for each compound at each location was used. If a compound was not detected above the analytical detection limit, its concentration was assumed to be zero for that location.

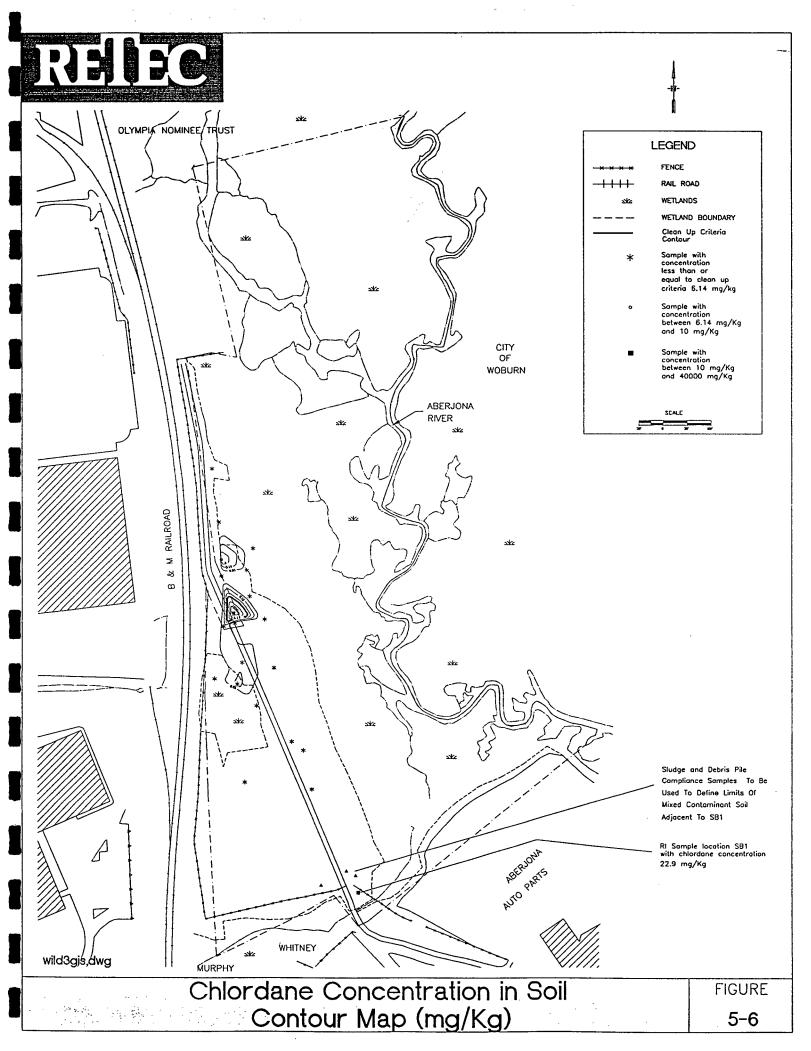
The database was used to generate contour maps for each criteria compound. Figures 5-4, 5-5, 5-6 and 5-7 show soil concentration contours for cPAHs, PCBs, chlordane and 4,4-DDT prepared as described above. The darker contour lines shown on these figures correspond to the soil cleanup levels established by the ROD. Figure 5-8 is a summary figure which shows the cleanup level contours for each of the mixed contaminants overlaid on the site map. The outer limits of the union of these contoured areas include 11,100 square feet and establish the overall horizontal extent of mixed contaminant soils with concentrations above the cleanup criteria. In an area at the southern end of the site near RI sample location SB1, compliance samples from locations shown on Figure 5-6 will be collected at sludge and debris pile locations and used to more clearly define the extent of impacted soil in this area.

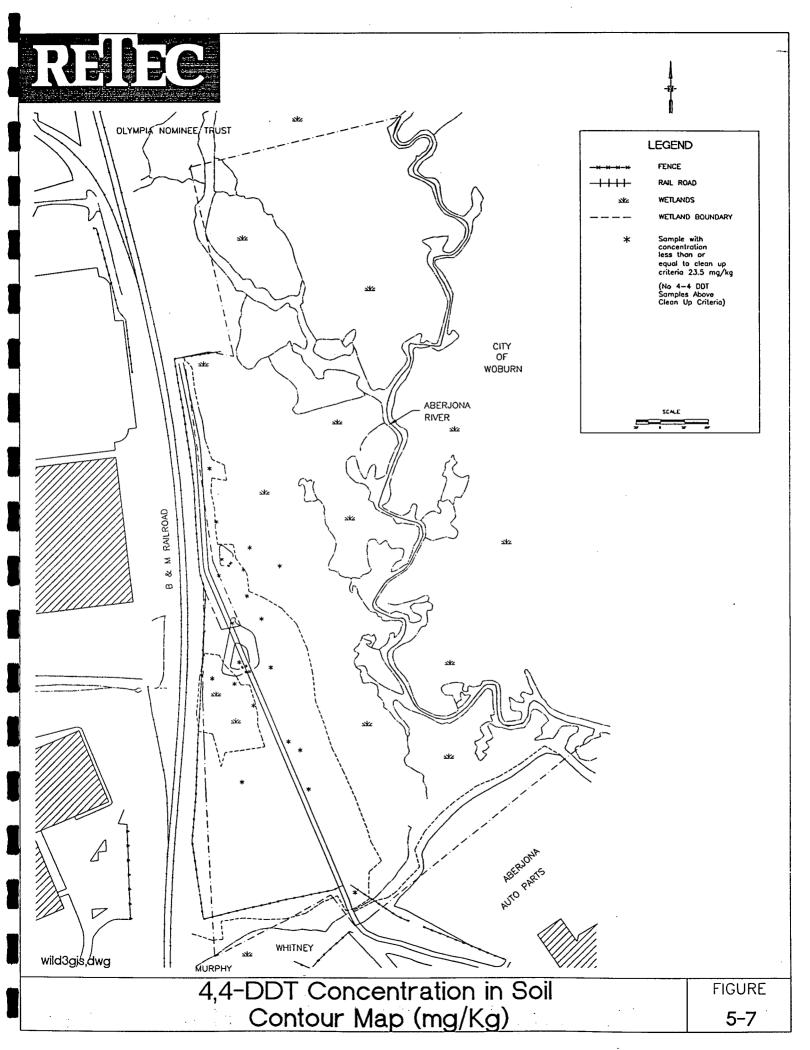
Table 5-16 presents a summary of cPAH and PCB analytical results for locations where soil samples were collected at more than one depth during the RI or the Predesign Investigation. This table was prepared to allow evaluation of the relationship between chemical concentration and depth. Values underlined on the table indicate values which exceed the cleanup levels set by the ROD. The site conceptual model presented in the work plan was based on the assumption











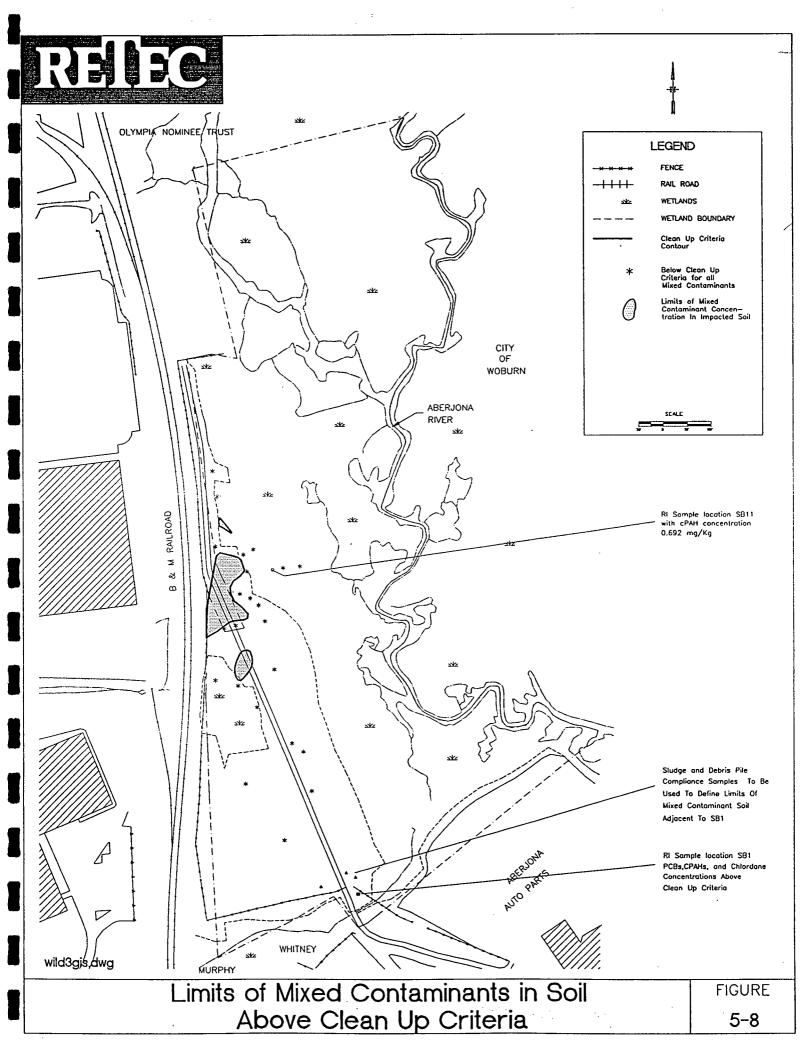


Table 5-16 Contaminant Concentration Variation With Depth (ppm) Wildwood Property Wells G & H Superfund Site

	Mixed Contaminants																
000000000000000000000000000000000000000	Depth	SB91-7	SB91-9	SB91-13	SB1	SB3	SB4	SB5	SB6	SB7	SB8	SB9	SB10	SB12	SB13	SB14	SB15
cPAH	s 0'-2' 2'-4' 4'-6'	0.121 ND ND	0.054 ND ND	ND ND ND	ND 3.000 NS	ND ND NS	0.480 ND NS	23.800 ND NS	ND ND NS	ND ND NS	0.282 ND NS	29,900 ND NS	1.860 ND NS	ND ND NS	ND ND NS	ND ND NS	0.075 NS
	Depth	SB91-7	SB91-9	SB91-13	SB1	SB3	SB4	SB5	SB6	SB7	SB8	SB9	SB10	SB12	SB13	SB14	SB15
PCBs	3 0'-2' 2'-4' 4'-6'	0.290 ND 0.160	250.000 60.000 0.041	0.120 ND ND	25.000 NA NS	0.080 NS	0.081 NS	ND NA NS	NA NA NS	NA NA NS	NA ND NS	3.000 0.130 NS	130.000 ND NS	ND ND NS	NA 0.170 NS	0.140 0.140 NS	0.600 ND NS
								VOCs									
	Depth	SB91-7	SB91-8	SB91-10	SB1	SB3	SB4	SB5	SB6	SB7	SB8	SB9	SB10	SB12	SB13	SB14	SB15
TCE	0'-2' 2'-4' 4'-6'	0.290 0.009 ND	0.450 0.480 0.010	0.035 0.017 830.000	0.010 ND NS	0.003 ND NS	5.900 0.007 NS	13.000 0.540 NS	0.004 ND NS	0.730 0.270 NS	0.032 0.008 NS	0.260 0.027 NS	0.042 0.340 NS	0.520 2.700 NS	3,900 25,000 NS	0.014 0.023 NS	0.068 0.039 NS
	Depth	SB91-7	SB91-8	SB91-10	SB1	SB3	SB4	SB5	SB6	SB7	SB8	SB9	SB10	SB12	SB13	SB14	SB15
PCE	0'-2' 2'-4' 4'-6'	0.850 0.020 ND	ND 0.140 0.004	0.003 ND ND	NA NA NS	NA NA NS	NA NA NS	NA ND NS	ND ND NS	0.022 0.027 NS	ND ND NS	ND ND NS	ND 0.500 NS	0.032 0.270 NS	2.000 6.400 NS	0.021 0.057 NS	ND ND NS

NOTES:

ND — Not Detected

NA — Not Analyzed

NS — Not Sampled

An underlined value indicates that the sample has exceeded clean up criteria.

that areas of high mixed contaminant concentrations were generated from surface sources and that the relatively low solubility of these compounds would lead to a limited amount of vertical migration.

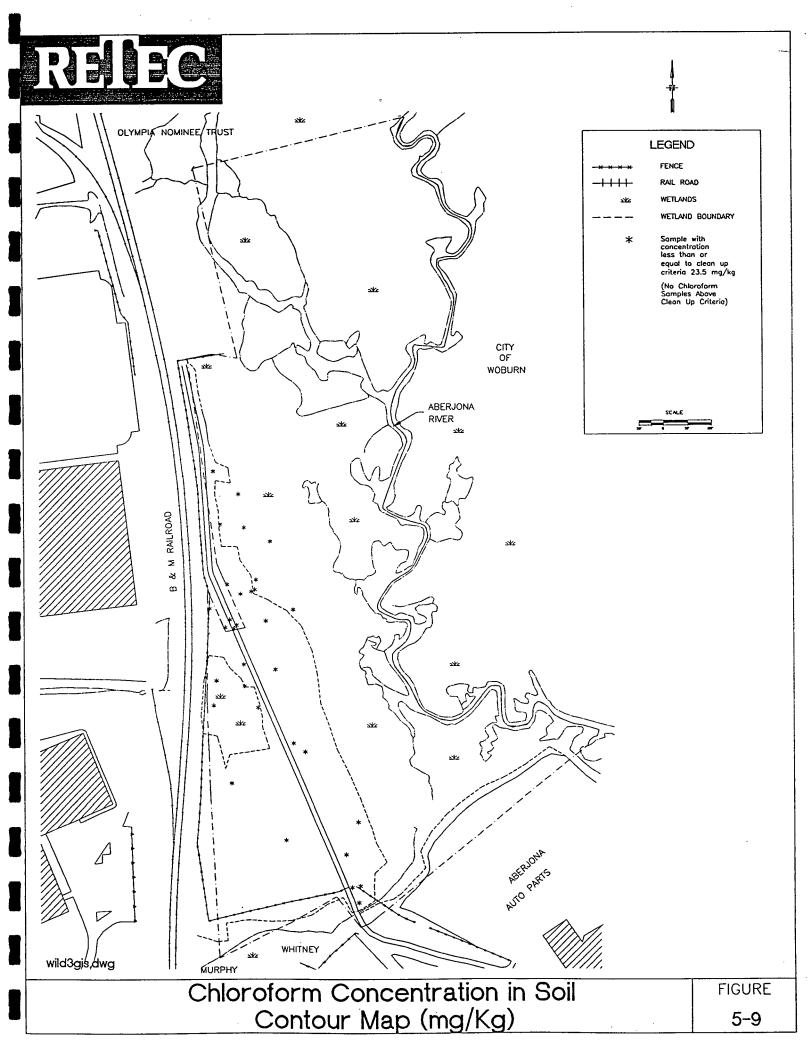
The data presented in the table generally support this interpretation. The results presented in the table can be characterized as showing relatively high concentrations in surface soils with a rapid drop off in concentration with depth. At only two locations are concentrations exceeding cleanup levels found below a depth of two feet, and at no location do the results indicate that excavation will be required solely because of chemical concentrations measured below a depth of two feet.

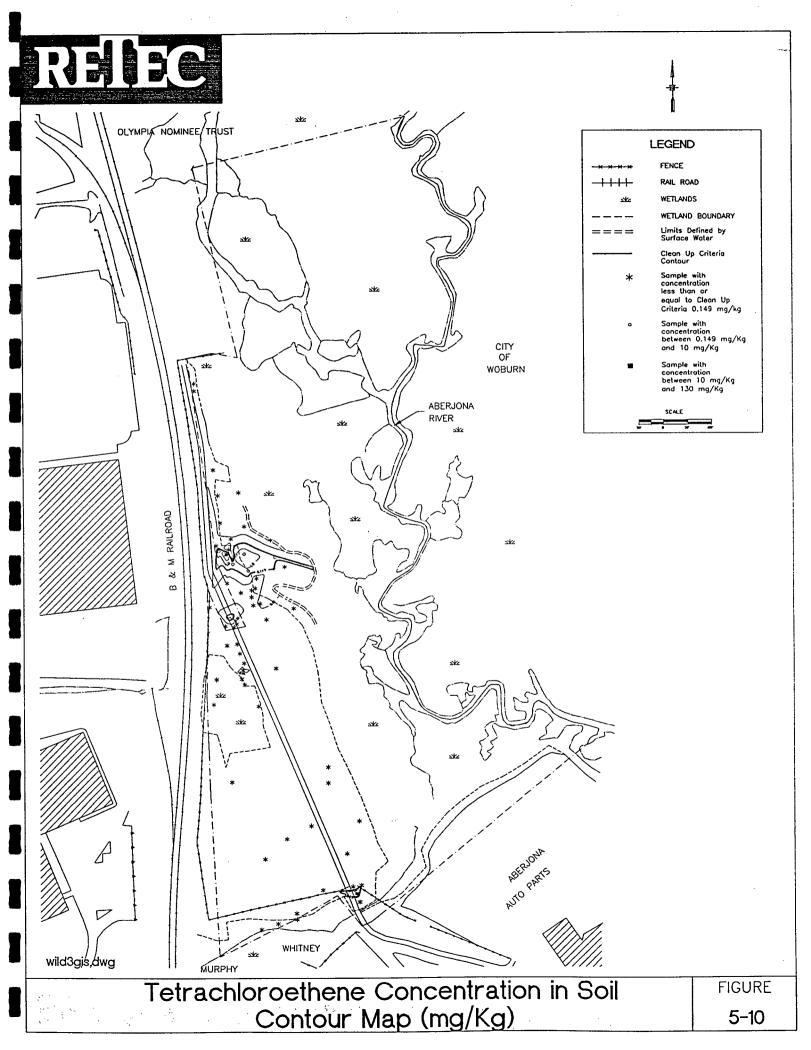
Based on the refined limits of excavation shown in Figure 5-8, the volume of mixed contaminants above cleanup levels has been estimated to be approximately 1,150 cubic yards. This estimate is based on the summary area shown and an average depth of excavation of 2.8 feet. This value for the depth of excavation was established based on the information presented in Table 5-16.

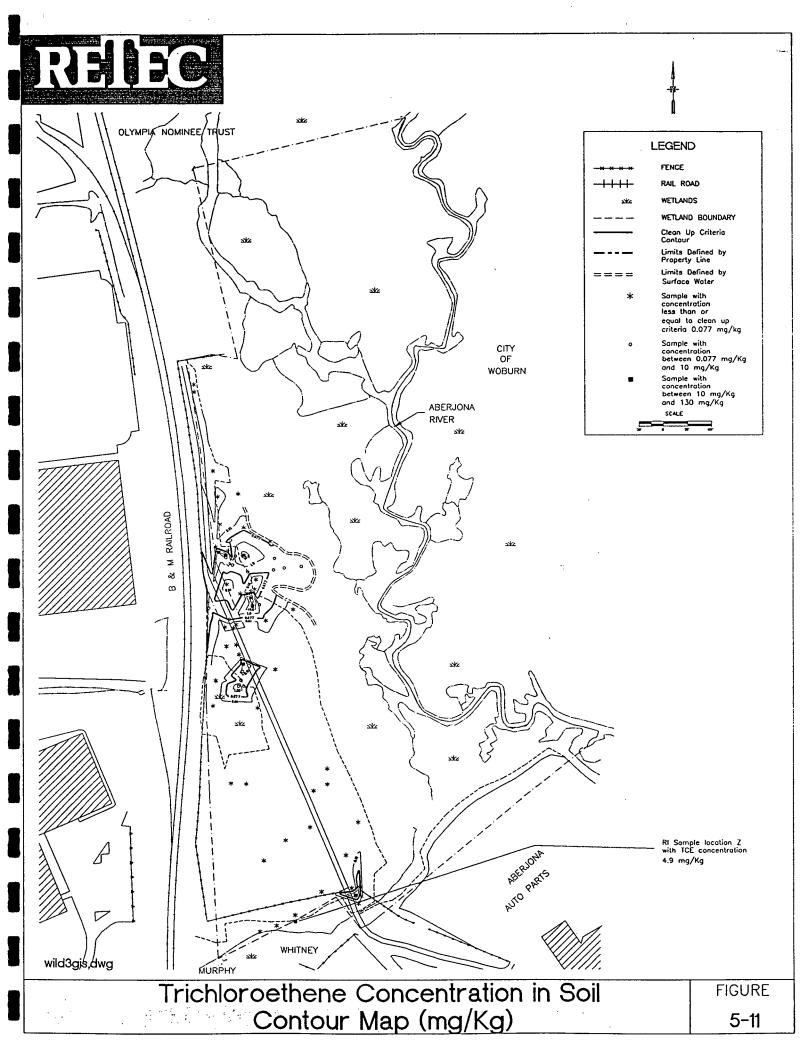
5.4.3 VOC Soil Evaluation

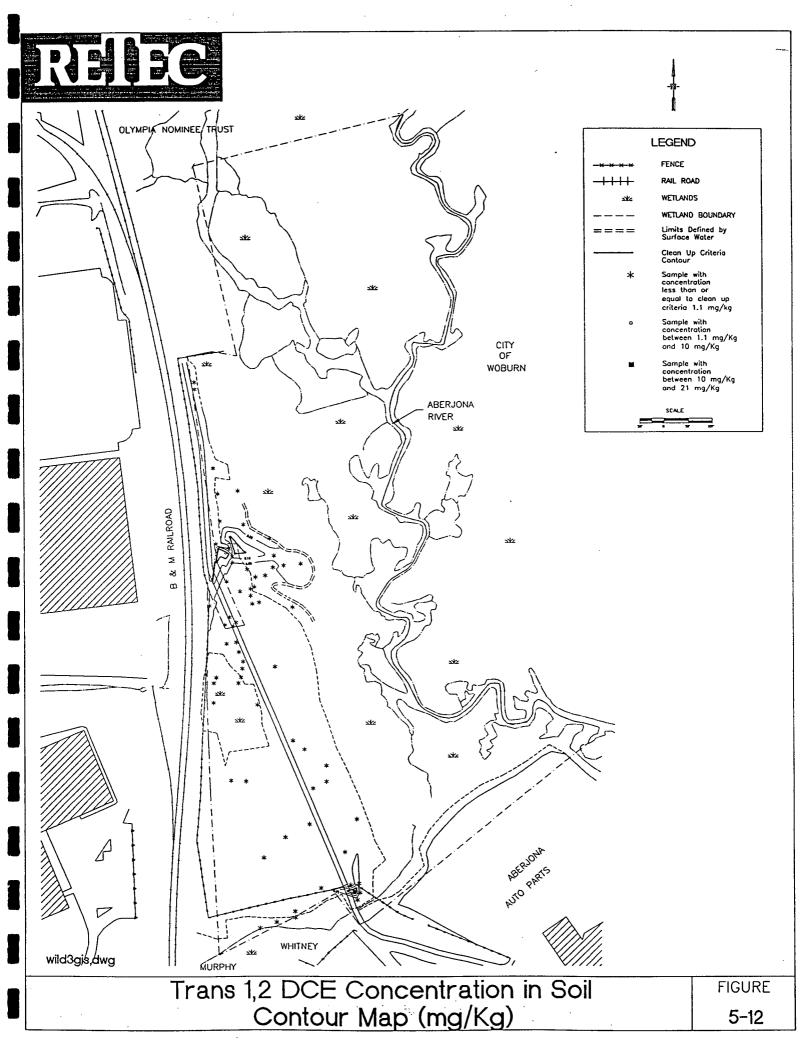
The horizontal limits of VOC-impacted soil above cleanup criteria were established with data from the mixed contaminant/VOC soil investigation, the partitioning coefficient study soil screening samples, the RI, and earlier investigations. Figure 5-3 shows the sample locations used to determine the limits. A database was created containing the coordinates for each sample location and maximum concentrations of the five VOC criteria compounds found. Some sample locations had more than one sample collected between a depth of 0 and 6 feet. In that case the highest measured concentration for each compound in each location was used. If a compound was not detected above the analytical detection limit, its concentration was assumed to be zero for modeling purposes.

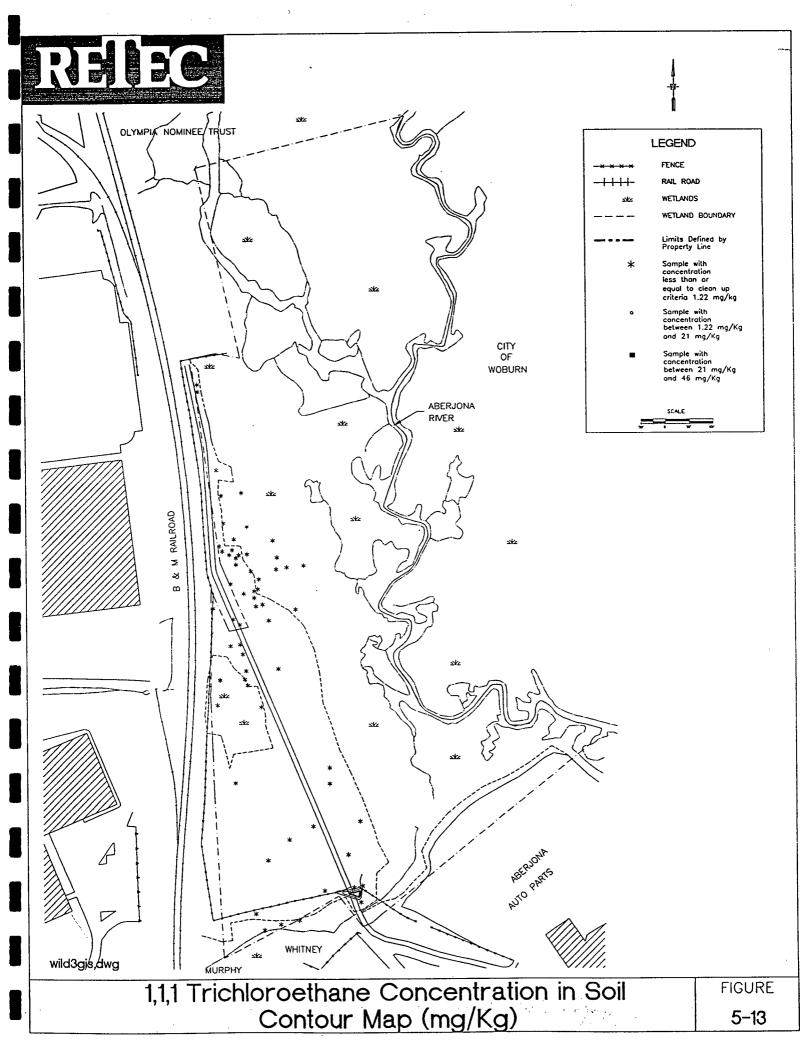
The database was used to generate contour maps of each VOC criteria compound as described above. Procedures followed to generate the contour figures are the same as those described for mixed contaminant soils. Figures 5-9, 5-10, 5-11, 5-12 and 5-13 show soil concentration contours for chloroform, tetrachloroethene, trichloroethene, trans-1,2-dichloroethene and 1,1,1-trichloroethane respectively. The contours shown as darker lines on the figures represent the areas which contain soils with concentrations higher than cleanup levels established in the partitioning coefficient study. Figure 5-14 is a summary figure which shows overlays of these cleanup level contours. These contours define the overall horizontal extent of VOC-impacted soil with concentrations above the cleanup criteria defined by the partitioning







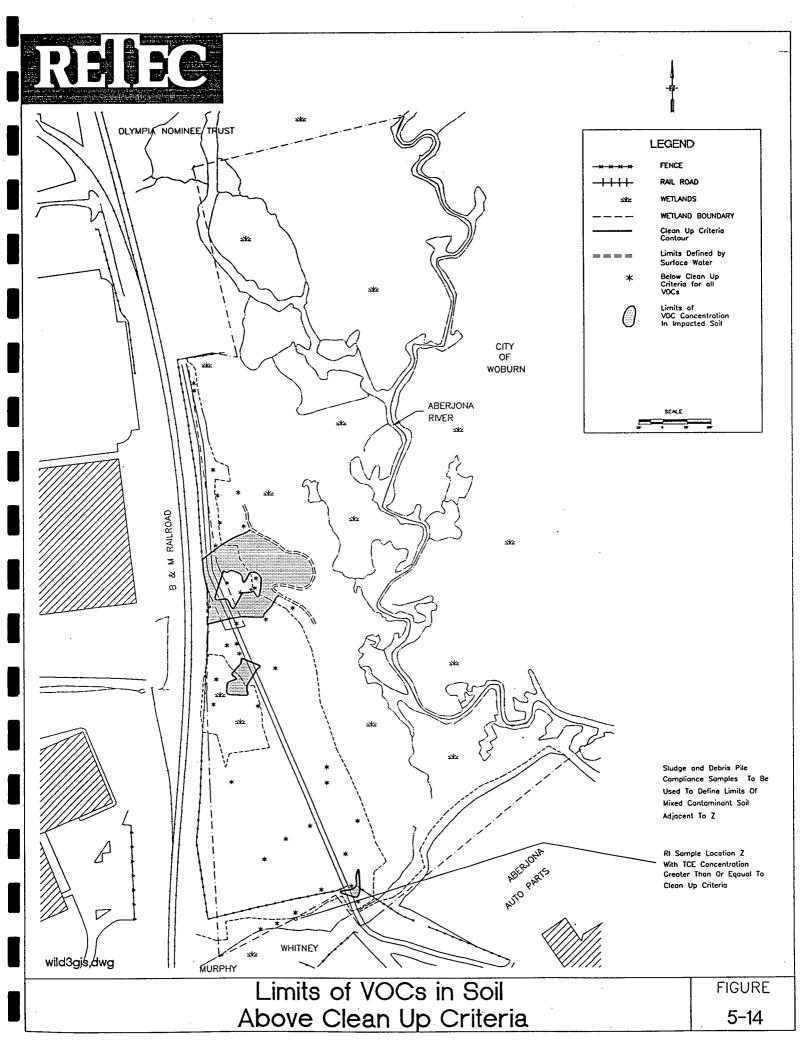


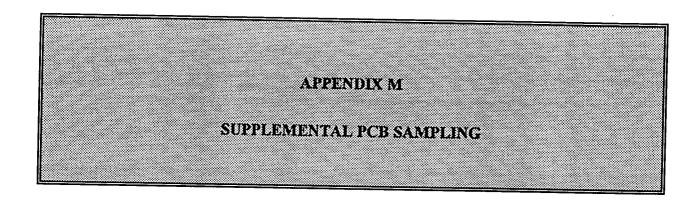


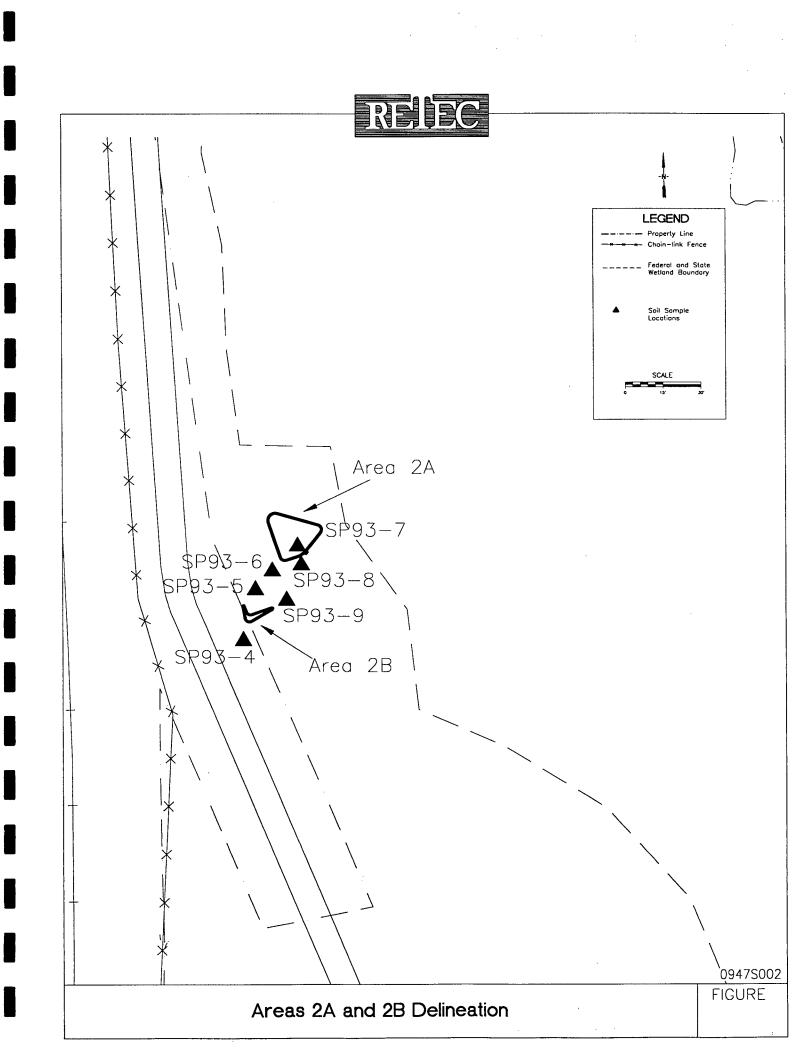
study. In an area at the southern end of the site along the access road, compliance samples to be taken at sludge and debris pile locations will be used to further define the extent of VOC-impacted soil.

Table 5-16 presents a summary of trichloroethene and tetrachloroethene analytical results for locations where VOC soil samples were collected at more than one depth during the RI or the Predesign Investigation. This table was prepared to allow evaluation of the relationship between chemical concentration and depth. Values underlined on the table indicate values which exceed the cleanup levels set by the partitioning coefficient study. The primary source of VOCs in soils at the site is believed to be the same as for the mixed contaminants, spilling or dumping of chemical residues on the ground surface. Because the criteria compound VOCs are more mobile than the mixed contaminants and heavier than water, the pattern of chemical concentrations is different than for those compounds. Chlorinated VOCs migrate downward through the soil below ground water table. Concentrations of these compounds above cleanup criteria in ground water have been measured at the site. Nearer the ground surface, these compounds are more likely to volatilize to the air, reducing their concentration in soil.

Soil samples collected during the Predesign Investigation generally support the conceptual model of the spatial distribution of VOCs and mixed contaminants in soil based on data collected during the RI and earlier investigations at the Site. The combined data set clearly establishes horizontal and vertical limits of impacted soil and provides a sound basis for the design of remedial actions for the Wildwood Property.







REPORT OF ANALYTICAL RESULTS

Case Number: D1103-02

Prepared for:

Remediation Technologies, Inc. 9 Pond Lane Concord, MA 01742 Attn: Jamie Greacen

Prepared by:

New England Testing Laboratory, Inc. 1254 Douglas Avenue North Providence, RI 02904

Date Reported: 17 NOV 1993

Reviewed By:

Mark H. Bishop

Laboratory Director

NEW ENGLAND TESTING LABORATORY, INC.

1254 Douglas Avenue, North Providence, Rhode Island 02904-5392 • 401-353-3420

Sample Description

The following samples were submitted to New England Testing Laboratory on 3 NOV 1993:

"Wells G&H RD/RA Wildwood Property"

- 1. S93-4
- 2. S93-5
- 3. S93-6
- 4. S93-7
- 5. S93-8
- 6. S93-9

The Custody record is included in this report. The samples were assigned an internal identification code (case number) for laboratory information management purposes. The case number for this sample submission is as follows:

Case Number: D1103-02

Request for Analysis

The following table details the analyses performed on the samples:

The following dans-		
<u>Sample</u>	<u>Analysis</u>	Method*
1. 593-4 2. 593-5 3. 593-6 4. 593-7 5. 593-8 6. 593-9	PCB's	8080

*Note: This method is documented in:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA.

Quality Assurance/Control Statements

All samples were found to be properly preserved/cooled upon receipt. All analyses were performed within EPA designated holding times. Procedure/calibration checks required by the designated protocols were within control limits.

ANALYTICAL RESULTS

Case No. D1103-02

PCB s

<u>Sample</u>	Result, mg/Kg
SP93-4	<0.5
SP93-5	1.52 as Aroclor 1254
SP93-6	7.33 as Aroclor 1254
SP93-7	5670 as Aroclor 1254
SP93-8	1.18 as Aroclor 1254
SP93-9	81.6 as Aroclor 1254

J. N	0.	PHOJECT	NAME / / / / /			77	/ 7 /			. 1 .
	1-74	Wells	6+H RD/RA Vildwood Augerty		/		///			
	RS ISINAI		'	иО. ОГ		W /	′ / / .			
/	laines 1	A God	well	CON-		7 /		,		REMARKS
PLE	DATE	TIME	SAMPLE LOCATION	TAINERS						
<u>4</u>	11-2-93		Wildrood Projectly	/				PCB3 on	4	
<u>5</u>										
6				1						
2				1						
.8				1	\					
.9				,						
								X		
				ļ					····	
								 		
										
	ued ph: 12		Date / Time Received by: (Sugnature)		Relinquished by	y) (Signatur	(e)	Date /	Time	Received by: (Signature)
mes	1162	الانزيمرا	11-2-92 Spn Fed Ex							
Jule	hed by: የያ	ighalotu)	Date / Time Received by: (Signature)		Relinquished by		(u)	Date /	Timo	Received by: (Singulater)
juls	hed by: เร	ighalulu)	Date / Time Received for Laboratory (Single laboratory)	(UV)	1/3/9	Time		5	REME	DIATION TECHNOLOGIES
(BK		het De	mie Greecen RETEC (508) 371-1427	()	——————————————————————————————————————		KEMEUL TECHNOLOG	A FION		Damonmill Square 9 Pond Lane Concord, MA 01742

REPORT OF ANALYTICAL RESULTS

Case Number: D1021-02

Prepared for:

Remediation Technologies, Inc. 9 Pond Lane Concord, MA 01742 Attn: Jamie Greacen

Prepared by:

New England Testing Laboratory, Inc. 1254 Douglas Avenue North Providence, RI 02904

Date Reported: 03 DEC 1993

Reviewed By:_

Mark H. Bishop

Laboratory Director

NEW ENGLAND TESTING LABORATORY, INC.

1254 Douglas Avenue, North Providence, Rhode Island 02904-5392 • 401-353-3420

Sample Description

The following samples were submitted to New England Testing Laboratory on 21 OCT 1993:

"Wells GAH RD/RA Wildwood Property"

- 1. S93-1
- 2. S93-2
- 3. S93-3

The Custody record is included in this report. The samples were assigned an internal identification code (case number) for laboratory information management purposes. The case number for this sample submission is as follows:

Case Number: D1021-02

Request for Analysis

The following table details the analyses performed on the samples:

Sample	<u>Analysis</u>	Method*
D1021-02: S93-1 S93-2 S93-3	CRITERIA VOCS	8240
S93-1	TOTAL LEAD	6010
	CRITERIA PESTICIDES and PCBs	8080
	CRITERIA PNAs	8270

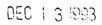
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA.

Quality Assurance/Control Statements

The samples were found to be properly preserved/cooled upon receipt. All analyses were performed within EPA designated holding times. Procedure/calibration checks required by the designated protocols were within control limits.

^{*}Note: This method is documented in:

ANALYTICAL RESULTS



SAMPLE NUMBER		S93-1			S93-2			S93-3	
DATE ANALYZED	1	0/27/93		10/27/93			10/27/93		
LAB SAMPLE NUMBER		S93-1			S93-2			S93-3	
CRITERIA VOC'S, UG/KG									
Vinyl Chloride	<	2.5		<	2.5		<	2.5	
1,1-Dichloroethene	<	2.5		<	2.5		<	2.5	
1,1-Dichloroethane	<	2.5		<	2.5		<	2.5	
t-1,2-Dichloroethene	<	2.5		<	2.5		<	2.5	
Chloroform	<	2.5		<	2.5		<	2.5	
1,2-Dichloroethane	<	2.5		<	2.5		<	2.5	
1,1,1-Trichloroethane	<	2.5		<	2.5	·	<	2.5	
Trichloroethene	<	2.5		<	2.5		<	2.5	
Tetrachloroethene		2.1	J		1.7	J		1.2	J

J=Below modified CRDL:2.5 ug/kg

B=Compound detected in method blank

D=result obtained from analysis of secondary dilution

	=	-	_^	. 4	2
V			=0	1	13

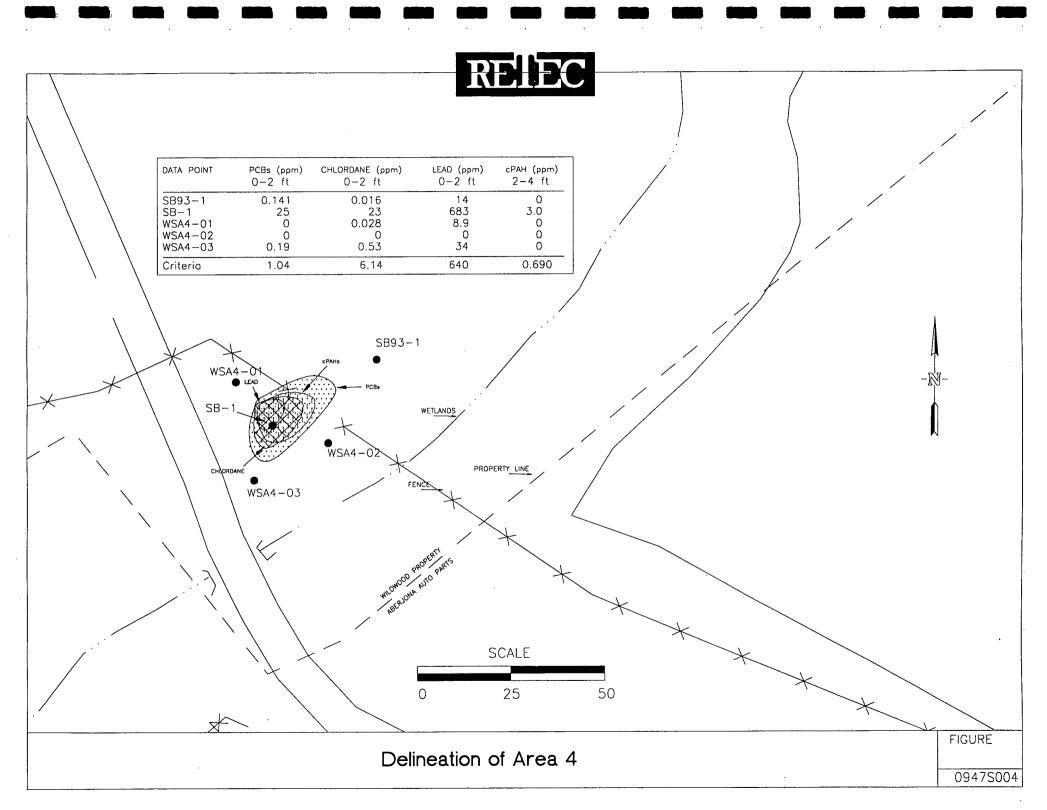
SAMPLE NUMBER LAB SAMPLE NUMBER	\$93-1 \$93-1	DATE EXTRACTED	DATE ANALYZED
Total lead, mg/kg	14.0	NA	12/4/93
PESTICIDES, mg/kg		10/31/93	11/17/93
Chlordane	0.016		•
4,4-DDT	0.019		
cPAHs, mg/kg		10/31/93	11/9/93
Benzo(a)anthracene	< 0.049		
Benzo(b)fluoranthene	< 0.049		
Benzo(k)fluoranthene	< 0.049		
Benzo(a)pyrene	< 0.049		
Chrysene	< 0.049		
Dibenz(a,h)anthracene	< 0.049		
Indeno(1,2,3-c,d)perlyene	< 0.049		
indeno(1,2,5 e,a)persy			
PCB Aroclors, mg/kg		10/31/93	11/17/93
1016	< 0.033		
1221	< 0.067	,	
1232	< 0.033		
1242	< 0.033		
1248	< 0.033		
1254	0.141		
1260	< 0.033	•	

CUSTODY RECORD

CHAIN OF CUSTODY RECORD PROJ. NO. Wells GTH RO/RA 3-0147-120 NO. RETEC/Bratrice OF: CON-LAINERS REMARKS SAMPLE STATION LOCATION DATE 1. D.: Rese to Tible 2 of Attachment I of the 61.1 of 5'B-1 X 593-1 10:20-13 Herlinist of Z X 573-2 0003 AT 14-10 593-31 Received by: (Signature) Date/Time Relinquished by: (Signature) Date/Time Received by: (Signature) Relinguished by: (Signature) Relinquished by: (Signature) Date/Time Received by: (Signature) Received by: (Signature) Relinquished by: (Signature) Received for Laboratory, by Wells C+H Soil VOC" "
Much Contaguageds Date/Time Date/Time Relinquished by: (Signature) (Signature) 1/4/2000 1/21/93

APPENDIX N

SUPPLEMENTAL AREA 4 SAMPLING



REPORT OF ANALYTICAL RESULTS

WORK ORDER #: NETL 16

RETEC PROJECT #: 3-0947-330

Prepared for:

Remediation Technologies, Inc. 9 Pond Lane Concord, MA 01742

Report Date: 23 AUGUST 1994

Reviewed by:

Mark H. Bishop Laboratory Director

NEW ENGLAND TESTING LABORATORY, INC.

1254 Douglas Avenue, North Providence, Rhode Island 02904-5392 • 401-353-3420

SAMPLES SUBMITTED and REQUESTED ANALYSES:

Table 1 details samples submitted to New England Testing Laboratory and reported in this document. Custody records for the samples are included in this report.

TABLE 1A SOIL SAMPLES

SAMPLE ID	Date Sampled	Date Received		
WSA4-01-0/2	12-Aug-94	15-Aug-94		
WSA4-01-2/4	12-Aug-94	15-Aug-94		
WSA4-02-0/2	12-Aug-94	15-Aug-94		
WSA4-02-2/4	12-Aug-94	15-Aug-94		
WSA4-03-0/2	12-Aug-94	15-Aug-94		
WSA4-03-2/4	12-Aug-94	15-Aug-94		
WSA4-04-0/2	12-Aug-94	15-Aug-94		

These samples were submitted for the analysis of the following parameters:

Parameter	Required Reporting Limit, mg/kg
Total lead, mg/kg	320
PESTICIDES, mg/kg	
Chlordane	3.07
4,4-DDT	11.0
cPAHs, mg/kg	
Benzo(a)anthracene	0.049
Benzo(b)fluoranthene	0.049
Benzo(k)fluoranthene	0.049
Benzo(a)pyrene	0.049
Chrysene	0.049
Dibenz(a,h)anthracene	0.049
Indeno(1,2,3-c,d)perlyene	0.049
PCB Aroclors, mg/kg	
1016	0.074
1221	0.074
1232	0.074
1242	0.074
1248	0.074
1254	0.074
1260	0.074

ANALYTICAL METHODS:

Total lead:

Total lead was determined by acid digestion followed by Inductively Coupled Plasma Atomic Emission Spectroscopy. The analytical method used was EPA Method 3550/6010 as documented in:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA/OSW, 3rd ed.

Semivolatile organics:

The cPAHs were analyzed by Low Level Sonication Extraction-GC/MS. The analytical method used was EPA Method 3550/8270 as documented in:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA/OSW, 3rd ed.

Pesticides and PCBs:

Chlordane, DDT and PCBs were analyzed by Low Level Sonication Extraction-GPC/Florisil clean-up followed by electron capture gas chromatography. The analytical method used was EPA Method 3550/3640/3620/3660/8080 as documented in:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA/OSW, 3rd ed.

QUALITY ASSURANCE/CONTROL STATEMENTS

All samples were found to be properly preserved/cooled upon receipt. All analyses were performed within EPA designated holding-times. Procedure/calibration checks required by the designated protocols were within control limits.

MS/MSD analysis was performed on sample 01-0/2. The results are presented on the following pages.

LEAD:

Sample Conc.=8.9 Spike added=75 MS Result=81 MSD Result=82 Recovery=96 RPD=1

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike - Sample No.:	01-0/2	_		Level: (low/med)	LOW	
	! SPIKE	! SAMPLE	 1	MS	! MS	QC.
	ADDED	CONCENTRATION	1	CONCENTRATION		LIMITS
COMPOUND	(ug/Kg)	(ug/Kg)		(ug/Kg)	1	F REC.
1,4-Dichlorobenzene	2966		0 !	1716	58	ے 28-104
I-Nitroso-di-n-prop.(1)	2966	1	0 1	1817	61	41-126
1,2,4-Trichlorobenzene	2966		0 1	1821	61	38-107
Acenaphthene	2966		0 .	1883	63	31-137
,4-Dinitrotoluene	2966	!	0 !	1526	51	28-89
yrene	2966		0 i	1599	54	35-142
	01					
	SPIKE	MSD	MSD		1	ļ
	ADDED	CONCENTRATION	ı %	, % , , , , , , , , , , , , , , , , , ,	i QC	LIMITS
COMPOUND	(ug/Kg)	(ug/Kg)	REC	#¦ RPD	#¦ RPD	REC.
,4-Dichlorobenzene	<u> </u>	2171	! 73	! 23	! 27	ا 28-104
N-Nitroso-di-n-prop.(1)	2967	2419	82	1 29	- 38	41-126
,2,4-Trichlorobenzene	2967	2267	76	22	23	38-107
cenaphthene	2967	2017	68	8	[□] , 19	31-137
2,4-Dinitrotoluene	2967	! 2156	! 73	35	47	28-89
yrene	2967	2196	74	31	3 6	35-142
(1) N-Nitroso-di-n-propylamine Column to be used to flag r Values outside of QC limits		alues with an asterisk				
RPD: 0	out of	6	outside I	imits		
pike Recovery:	0	out of	_ 12	outside limits		

COMMENTS:

3F SO:Ĺ PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	NEW ENGLAND TES	TING LAB		Contract: NETL 16			
Lab Code:	RI010	Case N	ło.: <u>E0815-01</u>				
Matrix Spike -	EPA Sample No.:		01-0/2				
COMPOUND	1 1 1 1	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS %	# 1	QC LIMI REC

(ug/Kg)	(ug/Kg)	(ug/Kg)	REC #	REC.
		1	1	46-127
				35-130 34-132
			1	31-134
			1	42-139
671	10	1 56	73	1 23-134 1
	(ug/Kg)			

	SPIKE ADDED	MSD CONCENTRATION	MSD %	1 1 8		C LIMITS
COMPOUND	(ug/Kg)	(ug/Kg)	REC #	RPD	# RPD	REC.
gamma-BHC(Lindane)		1		[50	46-127
Heptachlor		1		1	31	i 35-130
Aldrin		Τ.		1	43	34-132
Dieldrin		· · · · · · · · · · · · · · · · · · ·		i	i 38	31-134
Endrin		. !			45	42-139
4,4'-DDT	67	52	68		50	23-134
	1 1	1		1	 i	i

#	Column to be used to	flag recovery	and RPD	values	with an	asterisk
---	----------------------	---------------	---------	--------	---------	----------

COMMENTS:			

3/90

Values outside of QC limits

ANALYTICAL RESULTS

NETL-16						
SAMPLE NUMBER		WSA4-01-0/2			WSA4-01-2/4	
LAB SAMPLE NUMBER		WSA4-01-0/2			WSA4-01-2/4	
Date Sampled		8/12/94			8/12/94	
Date Received		8/15/94			8/15/94	
Date Extracted - Pest/PCBs		8/18/94			8/18/94	
Date Extracted PNAs		8/20/94			8/20/94	
Date Analyzed Lead		8/19/94			8/19/94	
Date Analyzed Pests/PCBs		8/18/94			8/18/94	
Date Analyzed PNAs		8/23/94			8/23/94	
			:			
Total lead, mg/kg		8.9		<	5.0	U
PESTICIDES, mg/kg						
Chlordane		0.028	J	<	0.05	U
4,4-DDT		0.01	: :	<	0.005	U
		4				
cPAHs, mg/kg				<u> </u>		
Benzo(a)anthracene	<	0.04	U	<	0.04	U
Benzo(b)fluoranthene		0.05		<	0.04	U
Benzo(k)fluoranthene	<	0.04	U .	<	0.04	U
Benzo(a)pyrene	<	0.04	U		0.04	U
Chrysene		0.04	U		0.04	U
Dibenz(a,h)anthracene	<	0.04	U		0.04	U
Indeno(1,2,3-c,d)perlyene	<	0.04	U,	<	0.04	U
		 	<u> </u>			
PCB Aroclors, mg/kg			<u> </u>	ļ		
1016	<	0.05	U		0.05	U
1221	<	0.05	U	<	0.05	U
1232	<	0.05	U		0.05	U
1242	<	0.05	U	<	0.05	U
1248	<	0.05	U	<	0.05	U
1254	<	0.05	U	<	0.05	U
1260	<	0.05	U	<	0.05	U

NETL-16				<u> </u>		
SAMPLE NUMBER		WSA4-02-0/2			WSA4-02-2/4	
LAB SAMPLE NUMBER		WSA4-02-0/2			WSA4-02-2/4	
Date Sampled		8/12/94	\vdash		8/12/94	
Date Sampled Date Received		8/15/94			8/15/94	
Date Received Date Extracted - Pest/PCBs		8/18/94	\vdash		8/18/94	
Date Extracted - Pest/PCBs Date Extracted PNAs		8/20/94			8/20/94	
		8/19/94			8/19/94	
Date Analyzed Lead		8/18/94			8/18/94	
Date Analyzed Pests/PCBs		8/23/94			8/23/94	
Date Analyzed PNAs		0/23/94			0/23/34	
Total lead, mg/kg	<	5.0	U	<	5.0	U
PESTICIDES, mg/kg						
Chlordane		0.05	U		0.04	J
4,4-DDT		0.003	J		0.005	U
4,4-001	i	0.003	J		0.003	
cPAHs, mg/kg						
Benzo(a)anthracene	. <	0.04	U		0.04	U
Benzo(b)fluoranthene		0.04	U	i	0.04	U
Benzo(k)fluoranthene	<	0.04	U	<	0.04	U
Benzo(a)pyrene	<	0.04	U	<	0.04	U
Chrysene	<	0.04	U	<	0.04	U
Dibenz(a,h)anthracene	<	0.04	U	<	0.04	U
Indeno(1,2,3-c,d)perlyene	<	0.04	U	<	0.04	U
PCB Aroclors, mg/kg						
1016		0.05	U		0.05	U
1221	<	0.05	U		0.05	U
1232		0.05	U	I	0.05	U
1242	<	0.05	U	<	0.05	U
1248	<	0.05	U	<	0.05	U
1254	<	0.05	U		0.05	U
1260	<	0.05	U	<	0.05	U

NETL-16						
SAMPLE NUMBER		WSA4-03-0/2			WSA4-03-2/4	
LAB SAMPLE NUMBER		WSA4-03-0/2			WSA4-03-2/4	
Date Sampled		8/12/94			8/12/94	
Date Received		8/15/94			8/15/94	
Date Extracted - Pest/PCBs		8/18/94			8/18/94	
Date Extracted PNAs		8/20/94			8/20/94	
Date Analyzed Lead		8/19/94			8/19/94	
Date Analyzed Pests/PCBs		8/18/94			8/18/94	
Date Analyzed PNAs		8/23/94			8/23/94	
Total lead, mg/kg	İ	34.0		<	5.0	U
PESTICIDES, mg/kg						
Chlordane		0.53			0.05	U
4,4-DDT		0.033		<	0.005	U
cPAHs, mg/kg						
Benzo(a)anthracene	i	0.085			0.04	U
Benzo(b)fluoranthene		0.125			0.04	U
Benzo(k)fluoranthene	<	0.04	U		0.04	U
Benzo(a)pyrene		0.113			0.04	U
Chrysene		0.079			0.04	U
Dibenz(a,h)anthracene	<	0.04	U		0.04	U
Indeno(1,2,3-c,d)perlyene		0.059			0.04	U
PCB Aroclors, mg/kg						
1016		0.05	U	<u> </u>	0.05	U
1221		0.05	U		0.05	U
1232		0.05	U		0.05	U
1242		0.05	U	<u> </u>	0.05	U
1248		0.05	U	!	0.05	U
1254	<	0.05	U		0.05	U
1260		0.19		<	0.05	U

NETL-16			
SAMPLE NUMBER		WSA4-04-0/2	
LAB SAMPLE NUMBER		WSA4-04-0/2	
Date Sampled		8/12/94	
Date Received		8/15/94	
Date Extracted - Pest/PCBs		8/18/94	
Date Extracted PNAs		8/20/94	
Date Analyzed Lead		8/19/94	
Date Analyzed Pests/PCBs	;	8/18/94	
Date Analyzed PNAs	!	8/23/94	
Total lead, mg/kg	<	5.0	U
PESTICIDES, mg/kg			
Chlordane	<	0.05	U
4,4-DDT	<	0.005	U
	:		
cPAHs, mg/kg			
Benzo(a)anthracene	<	0.04	U
Benzo(b)fluoranthene	<	0.04	U
Benzo(k)fluoranthene	<	0.04	U
Benzo(a)pyrene	<	0.04	U
Chrysene	<	0.04	U
Dibenz(a,h)anthracene	<	0.04	U
Indeno(1,2,3-c,d)perlyene	<	0.04	U
PCB Aroclors, mg/kg			
1016		0.05	U
1221		0.05	U
1232		0.05	U
1242		0.05	U
1248		0.05	U
1254		0.05	U
1260	<	0.05	U

CUSTODY RECORDS

NEW ENGLAND TESTING LABORATORY, INC.

1254 Douglas Avenue North Providence, RI 02904

CHAIN OF CUSTODY RECORD PROJECT NAME PROJ. NO. 3-0917-Wildwood NO. OF CON-REMARKS TAINERS G R A B COMP STATION LOCATION SAMPLE TIME DATE 1. D. WSA4- 8-12 1:30 8-12 8-12 8-12 18-12 15A4- 8-12 WSA4 8-12 Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: LSignature X Date/Time Relinquished by: (Signature) 3:00 Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquisped by: (Signature) Remarks Date/Time Received for Laboratory by: Date/Time Relinquished by: (Signature) (Signature)

APPENDIX O

INCINERATED MIXED-CONTAMINANT SOIL CHARACTERIZATION

MIXED SOIL CHARACTERIZATION

On June 28, 1993, the mixed contaminant soils were sampled to characterize them for disposal purposes. A total of seven composite samples were taken. One composite sample each was taken from mixed soils Areas 1, 3 and 4. Three additional samples were taken from Area 2, one from the PCB's > 50 ppm contour and two from the remainder of Area 2. Each composite sample was made up of four aliquots. Figure 1 presents the aliquot and sample locations. Aliquot locations were surveyed and staked into the field prior to sampling activities. Aliquots for each sample were taken over a 0 to 2 foot depth from hand shoveled holes. The aliquots for each were placed into a steel mixing bowl, mixed thoroughly, and a composite sample was taken from this mixture. The six composite samples were sent to New England Testing Labs (NETL) for the following analyses: full TCLP, RCRA characteristics, pesticides/PCBs, TPH by GC, total halogens, BTU content, ash content, moisture content, and grain size analysis. One additional composite sample was taken. This sample was composited from Areas 1, 3 and Area 2 outside the PCB's > 50 ppm contour. This sample was sent to NETL for semi-volatile and metals analyses. This sample was taken to determine a representative concentration of these constituents in the mixed-contaminant soils areas. Table 1 presents the results from all seven of the samples.

The analysis of the composite sample taken from Area 1 determined that the soils in area are not characteristically hazardous due to Toxicity, Ignitability, Corrosivity, or Reactivity. The only contaminants of concern that were detected in this sample were PCBs at a concentration of 0.93 mg/Kg. This concentration is less than the site clean-up criteria for PCBs, 1.04 mg/Kg. Total petroleum hydrocarbons were detected at 40 mg/Kg in this area also. Total Halogens and Pesticides were not detected in the sample. BTU content, ash content, and moisture content for this sample were < 500 BTU/lb, 80%, and 17%, respectively.

The analysis of the two composite samples taken from Area 2BCD determined that the soils in area are not characteristically hazardous due to Toxicity, Ignitability, Corrosivity, or Reactivity. The only contaminants of concern that were detected in these samples were PCBs at a concentration of 13.0 mg/Kg in one of the samples. The other sample had no detectable PCBs. This concentration is greater than the site clean-up criteria for PCBs, 1.04 mg/Kg. Total petroleum hydrocarbons were detected at an average of 26 mg/Kg in these samples. Total Halogens and Pesticides were not detected in either sample. BTU content, ash content, and moisture content for these samples averaged 1078 BTU/lb, 82%, and 14%, respectively.

The analysis of the composite sample taken from Area 2A determined that the soils in area are not characteristically hazardous due to Toxicity, Ignitability, Corrosivity, or Reactivity. The only contaminants of concern that were detected in this sample were PCBs at a concentration of 31.0 mg/Kg. This concentration is greater than the site clean-up criteria for PCBs, 1.04 mg/Kg. Total petroleum hydrocarbons were detected at 33 mg/Kg in this area also. Total Halogens and Pesticides were not detected in the sample. BTU content, ash content, and moisture content for this sample were 1460 BTU/lb, 83% and 14%, respectively.

The analysis of the composite sample taken from Area 3 determined that the soils in area are not characteristically hazardous due to Toxicity, Ignitability, Corrosivity, or Reactivity. Total petroleum hydrocarbons were detected at 21 mg/Kg in this area also. Total Halogens, Pesticides and PCBs were not detected in this sample. BTU content, ash content, and moisture content for this sample were 1070 BTU/lb, 78%, and 18%, respectively.

The analysis of the composite sample taken from Area 4 determined that the soils in area are not characteristically hazardous due to Toxicity, Ignitability, Corrosivity, or Reactivity. Total petroleum hydrocarbons were detected at 493 mg/Kg in this area also. Total Halogens, Pesticides and PCBs were not detected in this sample. BTU content, ash content, and moisture content for this sample were 2800 BTU/lb, 85% and 13%, respectively.

The sample taken to determine a representative concentration of semi-volatile organics and metals constituents in the mixed-contaminant soils areas determined total metals at a concentration of 502 mg/Kg. Semi-volatile organics were not detected in the sample.

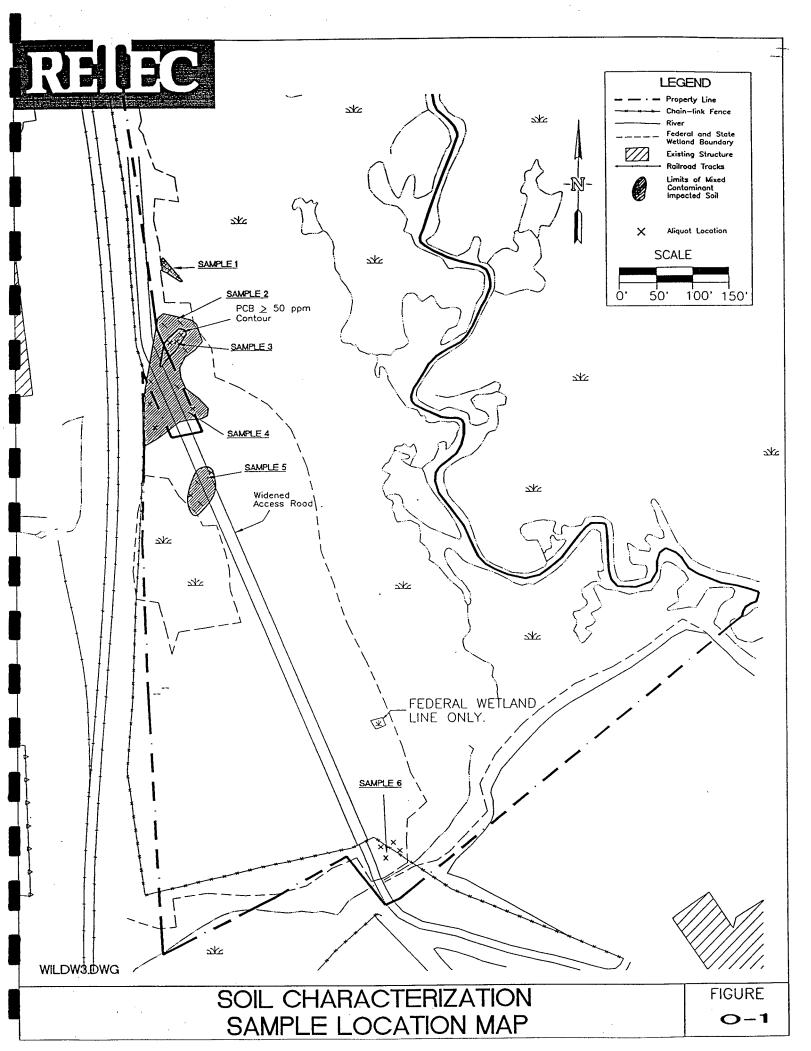


TABLE O-1
Mixed Contaminants (mg/Kg)
Compliance Sample Summary

			Area 1				Ar	e a 2		
	Target	MS-1A	MS-1B	MS-1C	MS-2A	MS-2B	MS-2C	MS-2D	MS-2E	MS-2F
Compound	oncentratio	10/04/94	10/04/94	10/04/94	10/04/94	10/04/94	10/04/94	10/04/94	10/04/94	10/11/94
Lead	640	6.4	12.2	2.4	5.9	6.7	6.1	4.4	212	6.1
Chlordane	6.14	0.004	0.005	0.001	0.017	0.004	0.003	0.003	0.143	0.004
4, 4 - DDT	23.5	0.004	0.005	0.004	0.004	0.004	0.003	0.003	0.209	0.003
cPAHs	0.69	0.268	0.395	0.286	0.284	0.276	0.251	0.271	0.283	0.256
PCBs	1.04	0.049	0.109	0.052	0.735	0.300	0.274	0.272	0.177	0.269
STAT	rus	pass	pass	pass	pass	pass	pass	pass	pass	pass

		Ar	ea 3		Area 4		Are	ea 5		
	Target	MS-3A	MS-3B	MS-4A	MS-4B	MS-4C	MS-5A	MS-5B	Standard	Mean
Compound	oncentratio	10/11/94	10/11/94	10/04/94	10/04/94	10/04/94	10/11/94	10/11/94	Deveation	Concentra
Lead	640	6.5	6.5	6.0	6.5	2.1	6.6	6.3	52.1	18.9
Chlordane	6.14	0.009	0.004	0.002	0.004	0.003	0.046	0.28	0.075	0.033
4, 4 - DDT	23.5	0.002	0.004	0.003	0.004	0.003	0.007	0.003	0.052	0.017
cPAHs	0.69	0.264	0.273	0.253	0.268	0.257	0.273	0.262	0.040	0.276
PCBs	1.04	0.289	0.297	0.273	0.291	0.279	0.295	0.284	0.155	0.265
STA	ΓUS	pass	pass	pass	pass	pass	pass	pass	pass	pass

REPORT OF ANALYTICAL RESULTS

Case Number: D0629-05

Prepared for:

Remediation Technologies, Inc. 9 Pond Lane Concord, MA 01742 Attn: Andy Gates

Prepared by:

New England Testing Laboratory, Inc. 1254 Douglas Avenue North Providence, RI 02904

Date Reported: 15 JULY 1993

Reviewed By:

Mark H. Bishop

Laboratory Director

NEW ENGLAND TESTING LABORATORY, INC.

1254 Douglas Avenue, North Providence, Rhode Island 02904-5392 • 401-353-3420

Sample Description

The following samples were submitted to New England Testing Laboratory on 29 JUNE 1993:

"Wells G&H - Wildwood Property"

- 1. MSC 1-1
- 2. MSC 2-1
- 3. MSC 2-2
- 4. MSC 2-A
- 5. MSC 3-1
- 6. MSC 4-1
- 7. MSC-A

The Custody record is included in this report. The samples were assigned an internal identification code (case number) for laboratory information management purposes. The case number for this sample submission is as follows:

Case Number: D0629-05

Request for Analysis

The following table details the analyses performed on the samples:

		_
<u>Sample</u>	<u>Analysis</u>	<u>Method*</u>
D0629-05:		
1. MSC 1-1	Moisture	SW846
2. MSC 2-1	Ash	160.4
3. MSC 2-2	BTU's	2382 - 76
4. MSC 2-A	Grain Size	D422
5. MSC 3-1		
6. MSC 4-1	Total Halogens Total Petroleum	E442
6. MSC 4-1		2550/2215
	Hydrocarbons	3550/8015
	Corrosivity-pH	9040
	Reactivity-CN	Section 7.3.3.2
	-S	Section 7/3/4/1
	Ignitability	1010
	Pesticides/PCB's	8080
	TCLP Extraction	1311
	TC Volatiles	8240
	TC Semivolatiles	8270
·	TC Pesticides	8080
	TC Herbicides	8150
	Arsenic	7060
	Barium	6010
	Cadmium	6010
	Chromium	6010
	Lead	6010
·	Mercury	7470
	Selenium	7740
	Silver	6010
7. MSC-A	Amannia	7060
7. MSC-A	Arsenic	7060
	Barium	6010
	Cadmium	6010
	Chromium	6010
	Lead	6010
	Mercury	7470
	Selenium	7740
	Silver	6010
	Semivolatiles	8270

^{*}Note: These methods are documented in:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA.

ASTM, Section 9 and Section 15

Quality Assurance/Control Statements

All samples were found to be properly preserved/cooled upon receipt. All analyses were performed within EPA designated holding times. Procedure/calibration checks required by the designated protocols were within control limits.

Matrix Spike Analysis

Matrix: MSC 2-1

ME	TALS	Conilea ma/l	Result, mg/l	Recovery, %
		Spike, mg/l	Result, mg/1	Recovery, .
	Arsenic	0.200	0.181	90
	Barium	2.00	1.97	99
	Cadmium	2.00	2.07	104
	Chromium	2.00	2.15	101
	Lead	2.00	1.97	99
	Mercury	0.005	0.0053	106
	Selenium	0.200	0.232	116
	Silver	2.00	1.98	99

VOLATILE ORGANIC COMPOUNDS

		Spike, mg/l	Result, mg/l	Recovery, %
	1,1-Dichloroethene	0.2	0.150	75
	Trichloroethene	0.2	0.149	74
	Benzene	0.2	0.185	92
•	Chlorobenzene	0.2	0.202	101
	Carbon Tetrachloride	0.2	0.185	93
	Chloroform	0.2	0.176	88
	1,2-Dichloroethane	0.2	0.213	106
	Methyl Ethyl Ketone	0.4	0.470	117
	Tetrachloroethylene	0.2	0.220	113
	Vinyl Chloride	0.4	0.490	123
	1,4-Dichlorobenzene	0.2	0.200	100

Matrix: MSC 2-A

SEMIVOLATILE ORGANIC COMPOUNDS

	Spike, mg/l	Result, mg/l	Recovery, %
Hexachlorobenzene	0.156	0.135	87
Hexachloro-1,3-butadiene	0.156	0.077	49
Hexachloroethane	0.156	0.043	28
Nitrobenzene	0.164	0.084	54
Pyridine	0.160	0.067	42
2,4-Dinitrotoluene	0.160	0.075	47
1,4-Dichlorobenzene	0.152	0.063	41
_	0.354	0.003	56
o-Cresol	0.164	0.092	30
m-Cresol	0.348	0.144	41
p-Cresol	0.348	0.144	41
Pentachlorophenol	0.200	0.146	73
2,4,5-Trichlorophenol	0.156	0.124	79
2,4,6-Trichlorophenol	0.152	0.128	84

Matrix Spike Analysis

Matrix: MSC 2-1

PESTICIDES/HERBICIDES

	Spike, ppb	Result, ppb	Recovery, %
Lindane	1.0	0.72	72
Endrin	1.0	0.77	77
Heptachlor	1.0	0.71	71
Methoxychlor	1.0	0.67	67
2,4-D	2.0	2.6	131
2,4,5-TP Silvex	2.0	1.9	93

ANALYTICAL RESULTS

MSC 1-1

<u>Parameter</u>	Result, mg/Kg
Reactivity	
Sulfide	<1
Cyanide	<0.3
Corrosivity	
pH, S.U.	4.9
Ignitability, Deg. F	>200
Grain Size	Attached
Moisture, %	17
Ash, %	80
BTU's/lb	<500
Total Halogens	<0.01
Total Petroleum Hydrocarbons	40
Pesticides/PCB's	Attached
TCLP Extractables	Attached

sample: MSC 1-1

Date TCLP Extracted: 6/29/93 Date Analyzed*: 7/6/93

TCLP Extractable Metals:	Result, mg/L	Regulatory <u>Limit, mg/L</u>
Arsenic	<0.1	5.0
Barium	2.0	100.0
Cadmium	<0.05	1.0
Chromium	0.05	5.0
Lead	<0.2	5.0
Mercury	<0.005	0.2
Selenium	<0.1	1.0
Silver	<0.05	5.0

^{*} Date Completed

Sample: MSC 1-1

Date TCLP Extracted: 6/29/93
Date Analyzed: 7/6/93

TCLP Volatile Organic Compounds:

Compound	Concentration mg/L (ppm)	Regulatory Limit, mg/L (ppm)
Benzene	<0.02	0.5
Carbon Tetrachloride	<0.02	0.5
Chlorobenzene	<0.02	100.0
Chloroform	<0.02	6.0
1,4-Dichlorobenzene	<0.02	7.5
1,2-Dichloroethane	<0.02	0.5
1,1-Dichloroethylene	<0.02	0.7
Methyl Ethyl Ketone (MEK)	<0.5	200.0
Tetrachloroethylene	<0.02	0.7
Trichloroethylene	0.03	0.5
Vinyl Chloride	<0.04	0.2
Surrogates:	% Recovery	<u>Limits</u>
Toluene d8	96	88-110
1,2-Dichloroethane-d4	111	76-114
4-Bromofluorobenzene	112	86-115

sample: MSC 1-1

Date TCLP Extracted: 6/29/93
Date Prep Extracted: 7/6/93

Date Analyzed: 7/15/93

TCLP Extractable Pesticides/Herbicides:

Compound	Concentration mg/L (ppm)	Regulatory <u>Limit, mg/L (ppm)</u>
Chlordane	<0.01	0.03
2,4-D	<0.05	10.0
Endrin	<0.001	0.02
Heptachlor	<0.001	0.008
Heptachlor Epoxide	<0.001	0.008
Lindane	<0.001	0.4
Methoxychlor	<0.005	10.0
Toxaphene	<0.01	0.5
2,4,5-TP Silvex	<0.05	1.0

Sample: MSC 1-1

Date TCLP Extracted: 6/29/93
Date Prep Extracted: 7/6/93
Date Analyzed: 7/13/93

TCLP Semivolatile Base/Neutral Extractable Compounds:

Compound	Concentration mg/L (ppm)	Regulatory <pre>Limit, mg/L (ppm)</pre>
1,4-Dichlorobenzene	<0.05	7.5
Hexachlorobenzene	<0.05	0.13
Hexachloro-1,3-butadiene	<0.05	0.5
Hexachloroethane	<0.05	3.0
Nitrobenzene	<0.05	2.0
Pyridine	<0.05	5.0
2,4-Dinitrotoluene	<0.05	0.13

TCLP Semivolatile Acid Extractable Compounds:

Compound	Concentration mg/L (ppm)	Regulatory Limit, mg/L (ppm)
o-Cresol	<0.1	200.0
	<0.1	200.0
m-Cresol	- · -	200.0
p-Cresol	<0.1	
Pentachlorophenol	<0.1	100.0
2,4,5-Trichlorophenol	<0.1	400.0
2,4,6-Trichlorophenol	<0.1	2.0

Surrogates:	<pre>% Recovery</pre>	<u>Limits</u>	
Nitrobenzene d5	64	35-114	
2-Fluorobiphenyl	73	43-116	
p-Terphenyl d14	93	33-141	
Phenol d6	56	10-94	
2-Fluorophenol	65	21-100	
2.4.6-Tribromophenol	42	10-123	

sample: MSC 1-1

Case No. D0629-05 Date Analyzed: 7/15/93

Subject: Pesticides and PCB's Method: EPA 8080

Compound	Concentration mg/Kg (ppm)	Reporting <u>Limit</u>
Aldrin	N.D.	<0.1
alpha-BHC	N.D.	<0.1
beta-BHC	N.D.	<0.1
delta-BHC	N.D.	<0.1
gamma-BHC	N.D.	<0.1
Chlordane	N.D.	<0.5
4,4'-DDD	N.D.	<0.1
4,4'-DDE	N.D.	<0.1
4,4'-DDT	N.D.	<0.1
Dieldrin	N.D.	<0.1
Endosulfan I	N.D.	<0.2
Endosulfan II	N.D.	<0.2
Endosulfan sulfate	N.D.	<0.2
Endrin	N.D.	<0.1
Endrin aldehyde	N.D.	<0.1
Heptachlor	N.D.	<0.1
Heptachlor epoxide	N.D.	<0.1
Methoxychlor	N.D.	<0.2
Toxaphene	N.D.	<0.5
PCB-1016	N.D.	<0.5
PCB-1221	N.D.	<0.5
PCB-1232	N.D.	<0.5
PCB-1242	N.D.	<0.5
PCB-1248	N.D.	<0.5
PCB-1254	0.93	<0.5
PCB-1260	N.D.	<0.5

שניישו 15 ישני על היי שניישור אינוער אינוער אינוער אינוער אינוער אינוער אינוער אינוער אינוער אינוער אינוער אינו

Thu Jul 15 09:43:38 1993

GEOTECHNICAL LABORATORY TEST DATA

Project : D0529-05 Project No. : GTX-375 Boring No. : ---

Depth : ---Test Date : 7/12/93 Test Hethod : ASTM D422 Filename : MSCI-1 Blevation : m-m Tested by : krk Checked by : gtt

Sample No. : MSC 1-1 Location : *--

Soil Description : Brown send

Remarks : ---

HYDROMETER

Hydrometer ID t hy1 Weight of air-dried soil = 37.59 gm Specific Gravity = 2.65

Hydroscopic Hoisture Content:
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Hoisture Content = 0

Elepsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particlo Sise
			2 00	0.051	7	0.051
1.00	7.30	23.60	2.89			0.036
2.00	6.80	23.60	2.39	0.036	6	
		23.60	1.59	0.026	4	: 0.026
4,00	6.10			0.018	4	0.018
8.00	6.00	23.60	1.59		i i	0.013
15.00	5.00	23.60	1.59	0.013	~	
•	5.70	23,60	1.29	0.009	3	0.009
30.00			0.69	0.007	2.	0.007
40 DD	5.10	23.60	0.09	4.447		•

Sieve	sieve O	penings	FINE SIEVE SET Weight	Cumulative	Percent
Mesp	Inches	Millimeters	Retained (gm)	Weight Retained (gm)	Piner (%)
0.375	0.374	9.51	0.00	0.00	700
#4	0.187	4.75	0.63	0.63	98
	0.079	2.00	0.51	1.14	97
410	0.033	0.84	1.52	2.66	93
#20		0.42	3.98	6.64	83
#40	0.017	0.25	9.14	15.78	60
#60	0.010		8.86	24.54	37
#100	0.006	0.15		30.61	22
#200	0.003	0.07	5.97 16.35	46.96	D

Total Dry Weight of Sample = 46.96

D85 : 0.4817 mm D60 : 0.2524 mm D50 : 0.2010 mm D30 : 0.1088 mm D15 : 0.0621 mm D10 : 0.0543 mm

Soil Classification

ASTM Group Symbol : SM
ASTM Group Name : Silty wand
ARSHTO Group Symbol : A-2-4(0)

AASSTO Group Name : Silty Gravel and Sand

Charlesing Express * Concord, MA

Project: 00629-05 Boring No.: ---Sample No: MSC 1-1 Project No.: GTX+375 Tested by : krk Location: ---Filename : MSC1-1 Date : Thu Jul 15 1993 U.S. STANDARD SIEVE SIZE \$20 \$40 \$60 \$100 \$200 \$400 80 PERCENT FINER BY WEIGHT 30 PERCENT RETAINED 40 50 50 70 30 1 80 100 0.1 0.05 0.01 0.005 0.5 1000 500 50 0.001 100 GRAIN SIZE IN MILLIMETERS **GRAVEL** SAND SILT OR CLAY COBBLES MEDIUM COARSE FINE COARSE FINE Classification: Remarks: (SM) Silty sand Visual Description : Brown sand --

1. 1.222.35

MSC 2-1

<u>Parameter</u>	Result, mg/Kg
Reactivity	
Sulfide	<1
Cyanide	<0.3
Corrosivity	
pH, S.U.	5.6
Ignitability, Deg. F	>200
Grain Size	Attached
Moisture, %	10
Ash, %	87
BTU's/lb	516
Total Halogens	<0.01
Total Petroleum Hydrocarbons	39
Pesticides/PCB's	Attached
TCLP Extractables	Attached

sample: MSC 2-1

Case No. D0629-05

Date TCLP Extracted: 6/29/93
Date Analyzed*: 7/6/93

TCLP Extractable Metals:	Result, mg/L	Regulatory <u>Limit, mg/L</u>
Arsenic	<0.1	5.0
Barium	<0.5	100.0
Cadmium	<0.05	1.0
Chromium	0.13	5.0
Lead	<0.2	5.0
Mercury	<0.005	0.2
Selenium	<0.1	1.0
Silver	<0.05	5.0

^{*} Date Completed

sample: MSC 2-1

Date TCLP Extracted: 6/29/93
Date Analyzed: 7/6/93

TCLP Volatile Organic Compounds:

Compound	Concentration mg/L (ppm)	Regulatory <u>Limit, mg/L (ppm)</u>
Benzene	<0.02	0.5
Carbon Tetrachloride	<0.02	0.5
Chlorobenzene	<0.02	100.0
Chloroform	<0.02	6.0
1,4-Dichlorobenzene	<0.02	7.5
1,2-Dichloroethane	<0.02	0.5
1,1-Dichloroethylene	<0.02	0.7
Methyl Ethyl Ketone (MEK)	<0.5	200.0
Tetrachloroethylene	<0.02	0.7
Trichloroethylene	<0.02	0.5
Vinyl Chloride	<0.04	0.2
·		
Surrogates:	% Recovery	<u>Limits</u>
Toluene d8	90	88-110
1,2-Dichloroeth_ne-d4	110	76-114
4-Bromofluorobenzene	112	86-115

Sample: MSC 2-1

Date TCLP Extracted: 6/29/93 Date Prep Extracted: 7/6/93
Date Analyzed: 7/15/93

TCLP Extractable Pesticides/Herbicides:

Compound	Concentration mg/L (ppm)	Regulatory <u>Limit, mg/L (ppm)</u>
Chlordane	<0.01	0.03
2,4-D	<0.05	10.0
Endrin	<0.001	0.02
Heptachlor	<0.001	0.008
Heptachlor Epoxide	<0.001	0.008
Lindane	<0.001	0.4
Methoxychlor	<0.005	10.0
Toxaphene	<0.01	0.5
2,4,5-TP Silvex	<0.05	1.0

Sample: MSC 2-1 Case No. D0629-05

Date TCLP Extracted: 6/29/93
Date Prep Extracted: 7/6/93

Date Analyzed: 7/13/93

TCLP Semivolatile Base/Neutral Extractable Compounds:

Compound	Concentration mg/L (ppm)	Regulatory <pre>Limit, mg/L (ppm)</pre>
1,4-Dichlorobenzene Hexachlorobenzene Hexachloro-1,3-butadiene Hexachloroethane Nitrobenzene Pyridine 2,4-Dinitrotoluene	<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	7.5 0.13 0.5 3.0 2.0 5.0

TCLP Semivolatile Acid Extractable Compounds:

Compound	Concentration mg/L (ppm)	Regulatory <u>Limit, mg/L (ppm)</u>
o-Cresol m-Cresol p-Cresol Pentachlorophenol 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1	200.0 200.0 200.0 100.0 400.0 2.0

Surrogates:	<pre>% Recovery</pre>	<u>Limits</u>	
Nitrobenzene d5	62	35-114	
2-Fluorobiphenyl	74	43-116	
p-Terphenyl d14	84	. 33-141	
Phenol d6	55	10-94	
2-Fluorophenol	67	21-100	
2,4,6-Tribromophenol	33	10-123	

Sample: MSC 2-1

Case No. D0629-05 Date Analyzed: 7/15/93

Subject: Pesticides and PCB's Method: EPA 8080

Compound	Concentration mg/Kg (ppm)	Reporting <u>Limit</u>
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Methoxychlor	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	<0.1 <0.1 <0.1 <0.1 <0.1 <0.5 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.2 <0.2 <0.2 <0.1 <0.1 <0.1 <0.1
Toxaphene	N.D.	<0.5
PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	N.D. N.D. N.D. N.D. 13	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5

A SAME AND ASSESSED OF THE SAME OF THE SAM

GEOTECHNICAL LABORATORY TEST DATA

Project : D0629-05

Project No. : CIX-375 Boring No. : ---Sample No. : MSC 2-1

Depth : '---

Service per a verse of

Test Date : 7/9/93 Test Method : ASTM D422 Filename : MSC2-1 Elevation : +--Tested by : krk Checked by : gtt

Location : ---

Soil Description : Dark-brown granuler wand with twigs

Remarks : ---

HYDROMETER

Hydrometer ID : hyl Unight of air-dried soil = 35.49 gm ▶ 2.65 Specific Gravity

Bydroscopic Moleture Content : Weight of Wet Soil = 0 gm Weight of Dry Soil = 0 gm Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	7.80	21.50	2.65	0.052	6	0.052
			2.25	0.037	5	0.037
2.00	7.40	21.50	2.25		•	
4.00	7.00	21.50	1.85	0.076	5	0.026
		21.60	1.59	0.018	4	0.018
8.00	6.70	21.60				0.013
15.00	6.10	21.90	1.09	D.013	3	0.013
19.00			0.63	0.010	2	0.010
30.00	5.70	21.70	0.62	0.010	-	

Sievė	Sieve O	penings	PINE SIEVE SET Weight	Cumulative	Percent
Mesb .	Inches	Millimeters	Retained (gm)	Weight Retained (gm)	Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	3.23	3.23	- 92
#10	0.079	2.00	2.61	5.84	86
#20	0.033	0.84	4.36	10.20	76
#40	0.017	0.42	5.45	15.65	63
#60	0.010	0.25	8.45	24.10	43
#100	0.006	0.15	5.83	30.93	27
#200	0.003	0.07	3.16	34.09	19
Paga	0.003	•••	16.21	50.30	С

Total Dry Weight of Sample * 50.3

D85 : 1.8204 mm D60': 0.3905 mm D50 : 0.3016 mm D30 : 0.1665 mm

D15 : 0.0661 mm D10 : 0.0574 mm

Soil Classification

: SM ASTM Group Symbol : Silty mand ASTM Group Name

ARSHTO Group Symbol : R-2-4(0)

ARSETO Group Name : Silty Gravel and Band

Th Soutesting Engress ** * ** COROLL MA

Project: 00629-05 Boring No.: ---Project No.: GTX-375 Sample No.: MSC 2-1 Tested by : krk Location: ---Filename : MSC2-1 Date : Thu Jul 15 1993 U.S. STANDARD SIEVE SIZE \$20 \$40 \$60 \$100 \$200 \$400 10 PERCENT FINER BY WEIGHT PERCENT RETAINED 70 20 100 1000 500 0.1 0.05 0.01 0.005 100 50 0.001 GRAIN SIZE IN MILLIMETERS SAND **GRAVEL** SET OR CLAY COSSUES COARSE FIRE COARSE MEDIUM FINE Classification: Remarks: (SM) Silty sand Visual-Description : Dark brown granular sand with twigs.

MSC 2-2

<u>Parameter</u>	Result, mg/Kg
Reactivity	
Sulfide	<1
Cyanide	<0.3
Corrosivity	
pH, S.U.	4.8
Ignitability, Deg. F	>200
Grain Size	Attached
Moisture, %	17
Ash, %	76
BTU's/lb	1640
Total Halogens	<0.01
Total Petroleum Hydrocarbons	13
Pesticides/PCB's	Attached
TCLP Extractables	Attached

sample: MSC 2-2 Case No. D0629-05

Date TCLP Extracted: 6/29/93 Date Analyzed*: 7/6/93

TCLP Extra	ctable Metals:	Result, mg/L	Regulatory Limit, mg/L
Ars	enic	<0.1	5.0
Bar	ium	<0.5	100.0
Cadı	nium	<0.05	1.0
Chr	omium	<0.05	5.0
Lead	t.	<0.2	5.0
Mer	cury	<0.005	0.2
Sel	enium	<0.1	1.0
Sil	ver	<0.05	5.0

^{*} Date Completed

Case No. D0629-05

Sample: MSC 2-2

Date TCLP Extracted: 6/29/93 Date Analyzed: 7/6/93

TCLP Volatile Organic Compounds:

Compound	Concentration mg/L (ppm)	Regulatory Limit, mg/L (ppm)
Benzene	<0.02	0.5
Carbon Tetrachloride	<0.02	0.5
Chlorobenzene	<0.02	100.0
Chloroform	<0.02	6.0
1,4-Dichlorobenzene	<0.02	7.5
1,2-Dichloroethane	<0.02	0.5
1,1-Dichloroethylene	<0.02	0.7
Methyl Ethyl Ketone (MEK)	<0.5	200.0
Tetrachloroethylene	<0.02	0.7
Trichloroethylene	<0.02	0.5
Vinyl Chloride	<0.04	0.2
<u>Surrogates</u> :	% Recovery	<u>Limits</u>
Toluene d8	96	88-110
1,2-Dichloroethane-d4	113 -	76-114
4-Bromofluorobenzene	113	86-115

sample: MSC 2-2 Case No. D0629-05

Date TCLP Extracted: 6/29/93 Date Prep Extracted: 7/6/93 Date Analyzed: 7/15/93

TCLP Extractable Pesticides/Herbicides:

Compound	Concentration mg/L (ppm)	Regulatory <u>Limit, mg/L (ppm)</u>
Chlordane	<0.01	0.03
2,4-D	<0.05	10.0
Endrin	<0.001	0.02
Heptachlor	<0.001	0.008
Heptachlor Epoxide	<0.001	0.008
Lindane	<0.001	0.4
Methoxychlor	<0.005	10.0
Toxaphene	<0.01	0.5
2,4,5-TP Silvex	<0.05	1.0

Case No. D0629-05

sample: MSC 2-2

Date TCLP Extracted: 6/29/93 Date Prep Extracted: 7/6/93

Date Analyzed: 7/15/93

TCLP Semivolatile Base/Neutral Extractable Compounds:

Compound	Concentration mg/L (ppm)	Regulatory <pre>Limit, mg/L (ppm)</pre>
1,4-Dichlorobenzene Hexachlorobenzene Hexachloro-1,3-butadiene Hexachloroethane Nitrobenzene Pyridine 2,4-Dinitrotoluene	<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	7.5 0.13 0.5 3.0 2.0 5.0

TCLP Semivolatile Acid Extractable Compounds:

Compound	Concentration mg/L (ppm)	Regulatory Limit, mg/L (ppm)
o-Cresol m-Cresol p-Cresol Pentachlorophenol 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1	200.0 200.0 200.0 100.0 400.0 2.0

Surrogates:	<pre>% Recovery</pre>	<u>Limits</u>
Nitrobenzene d5 2-Fluorobiphenyl p-Terphenyl d14 Phenol d6 2-Fluorophenol	56 61 70 51 64	35-114 43-116 33-141 10-94 21-100
2,4,6-Tribromophenol	25	10-123

sample: MSC 2-2

Case No. D0629-05 Date Analyzed: 7/15/93

Subject: Pesticides and PCB's Method: EPA 8080

Compound	Concentration mg/Kg (ppm)	Reporting <u>Limit</u>
Aldrin	N.D.	<0.1
alpha-BHC	N.D.	<0.1
beta-BHC	N.D.	<0.1
delta-BHC	N.D.	<0.1
qamma-BHC	N.D.	<0.1
Chlordane	N.D.	<0.5
4,4'-DDD	N.D.	<0.1
4,4'-DDE	N.D.	<0.1
4,4'-DDT	N.D.	<0.1
Dieldrin	N.D.	<0.1
Endosulfan I	N.D.	<0.2
Endosulfan II	N.D.	<0.2
Endosulfan sulfate	N.D.	<0.2
Endrin	N.D.	<0.1
Endrin aldehyde	N.D.	<0.1
Heptachlor	N.D.	<0.1
Heptachlor epoxide	N.D.	<0.1
Methoxychlor	N.D.	<0.2
Toxaphene	N.D.	<0.5
		10 F
PCB-1016	N.D.	<0.5
PCB-1221	N.D.	<0.5
PCB-1232	N.D.	<0.5
PCB-1242	N.D.	<0.5 <0.5
PCB-1248	N.D.	<0.5
PCB-1254	N.D.	<0.5
PCB-1260	N.D.	<0.5

GEOTECHNICAL LABORATORY TEST DATA

Project : D0629-05 Project No. : GTX-375

Boring No. : ---Sample No. : MSC 2-2 Depth : ---Test Date : 7/9/93 Test Method : ASTH D422 Filename : MSC2Z Elevation : ---Tested by : krk Checked by : gtt

Location : ---

Soil Description : Dark brown sand Remarks : ---

HYDROMETER

Hydrometer ID : hyl Weight of mir-dried soil = 31.46 gm Specific Gravity **4 2.65**

Bydroscopic Moisture Content : Weight of Wet Soil = 0 gm Weight of Dry Soil = 0 gm Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Cortected Reading	Particle Size (mm)	Percent Piner (%)	Adjusted Particle Size
1.00	6.10	23.50	1.65	0.051	5	0.051
2.00	5.80	23,50	1.35	0.036	4	0.036
4.00	5.50	23.50	1.05	0.026	· 3	0.026
8.00	5.20	23.60	0.79	0.018	2	0.018
15.00	5.00	23.50	0.55	0.013	2	0.013

		· 7	INE SIEVE SET		
Sieve	Bieve O	penings	Weight	Cumulative	Percent
Mesh	Inches	Millimeters	Retained (gm)	Weight Retained (gm)	Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.32	0.32	99
#10	0.079	2.00	1.55	1.87	94
#20	0.033	Q.B4	1.98	3.05	88
#40	0.017	0.42	4.02	7.87	76
#60	0.010	0.25	8.86	16.73	49
#100	0.006	0.15	7.28	24.01	27
#200	0.003	0.07	2.53	26.54	20
Pan .			14.34	40.88	0

Total Dry Weight of Sample - 40.88

D85 : 0.6948 mm D60 : 0.3071 ==

D50 : 0.2531 mm D30 : 0.1586 was

D15 : 0.0658 mm

D10 : 0.0581 mm

Soil Classification

: 3M ASTH Group Symbol

: Silty sand ASTM Group Name

ARSHTO Group Symbol : A-2-4(0)

AASHTO Group Name : Bilty Gravel and Sand

> Post-It™ brand fax transmittal memo 7671 # of pagea > Phone Dept.

🐃 Okodosting Express 🖰

Christian MA

F 138

Project : 00629-05 Boring No.: ---Project No.: GTX-375 Sample No: MSC 2-2 Tested by : krk Location: ---Filename : MSC22 Date : Thu Jul 15 1993 U.S. STANDARD SIEVE SIZE #40 #60 #100 #200 #400 0.5* 20 PERCENT FINER BY WEIGHT PERCENT RETAINED 50 70 100 0.1 0.05 0.01 0.005 1000 500 100 50 0.5 0.001 GRAIN SIZE IN MILLIMETERS GRAVEL SANO SLT OR CLAY COBBLES COARSE COURSE MEDIUM FINE Classification: Remarks: (SM) Silty sand Visual Description: Dark brown sand

ascorAi

MSC 2-A

<u>Parameter</u>	Result, mg/Kg
Reactivity	
Sulfide	<1
Cyanide	<0.3
Corrosivity	
pH, S.U.	5.6
Ignitability, Deg. F	>200
Grain Size	Attached
Moisture, %	14
Ash, %	83
BTU's/lb	1460
Total Halogens	<0.01
Total Petroleum Hydrocarbons	33
Pesticides/PCB's	Attached
TCLP Extractables	Attached

Case No. D0629-05 Sample: MSC 2-A

Date TCLP Extracted: 6/29/93 Date Analyzed*: 7/6/93

TCLP Extractable Metals:	Result, mg/L	Regulatory <u>Limit, mg/L</u>
Arsenic	<0.1	5.0
Barium	0.58	100.0
Cadmium	<0.05	1.0
Chromium	0.11	5.0
Lead	<0.2	5.0
Mercury	<0.005	0.2
Selenium	<0.1	1.0
Silver	<0.05	5.0

^{*} Date Completed

Case No. D0629-05

sample: MSC 2-A

Date TCLP Extracted: 6/29/93 Date Analyzed: 7/6/93

TCLP Volatile Organic Compounds:

Compound	Concentration mg/L (ppm)	Regulatory Limit, mg/L (ppm)
Benzene	0.03	0.5
Carbon Tetrachloride	<0.02	0.5
Chlorobenzene	<0.02	100.0
Chloroform	<0.02	6.0
1,4-Dichlorobenzene	<0.02	7.5
1,2-Dichloroethane	<0.02	0.5
1,1-Dichloroethylene	<0.02	0.7
Methyl Ethyl Ketone (MEK)	<0.5	200.0
Tetrachloroethylene	<0.02	0.7
Trichloroethylene	<0.02	0.5
Vinyl Chloride	<0.04	0.2
Surrogates:	% Recovery	<u>Limits</u>
Toluene d8	90	88-110
1,2-Dichloroethane-d4	105	76-114
4-Bromofluorobenzene	107	86-115

sample: MSC 2-A

Case No. D0629-05

Date TCLP Extracted: 6/29/93
Date Prep Extracted: 7/6/93

Date Analyzed: 7/15/93

TCLP Extractable Pesticides/Herbicides:

Compound	Concentration mg/L (ppm)	Regulatory Limit, mg/L (ppm)
Chlordane	<0.01	0.03
2,4-D	<0.05	10.0
Endrin	<0.001	0.02
Heptachlor	<0.001	0.008
Heptachlor Epoxide	<0.001	0.008
Lindane	<0.001	0.4
Methoxychlor	<0.005	10.0
Toxaphene	<0.01	0.5
2,4,5-TP Silvex	<0.05	1.0

Sample: MSC 2-A Case No. D0629-05

Date TCLP Extracted: 6/29/93 Date Prep Extracted: 7/6/93

Date Analyzed: 7/13/93

TCLP Semivolatile Base/Neutral Extractable Compounds:

Compound	Concentration mg/L (ppm)	Regulatory <pre>Limit, mg/L (ppm)</pre>
1,4-Dichlorobenzene	<0.05	7.5
Hexachlorobenzene	<0.05	0.13
Hexachloro-1,3-butadiene	<0.05	0.5
Hexachloroethane	<0.05	3.0
Nitrobenzene	<0.05	2.0
Pyridine	<0.05	5.0
2,4-Dinitrotoluene	<0.05	0.13

TCLP Semivolatile Acid Extractable Compounds:

Compound	Concentration mg/L (ppm)	Regulatory Limit, mg/L (ppm)
o-Cresol	<0.1	200.0
m-Cresol	<0.1	200.0
p-Cresol	<0.1	200.0
Pentachlorophenol	<0.1	100.0
2,4,5-Trichlorophenol	<0.1	400.0
2,4,6-Trichlorophenol	<0.1	2.0

<u>Surrogates</u> :	<pre>% Recovery</pre>	<u>Limits</u>	
Nitrobenzene d5	60	35-114	
2-Fluorobiphenyl	72	43-116	
p-Terphenyl d14	្នារ	33-141	
Phenol d6	48	10-94	
2-Fluorophenol	57	21-100	
2,4,6-Tribromophenol	32	10-123	

sample: MSC 2-A

Case No. D0629-05
Date Analyzed: 7/15/93

Subject: Pesticides and PCB's Method: EPA 8080

Compound	Concentration mg/Kg (ppm)	Reporting <u>Limit</u>
Aldrin	N.D.	<0.1
alpha-BHC	N.D.	<0.1
beta-BHC	N.D.	<0.1
delta-BHC	N.D.	<0.1
gamma-BHC	N.D.	<0.1
Chlordane	N.D.	<0.5
4,4'-DDD	N.D.	<0.1
4,4'-DDE	N.D.	<0.1
4,4'-DDT	N.D.	<0.1
Dieldrin	N.D.	<0.1
Endosulfan I	N.D.	<0.2
Endosulfan II	N.D.	<0.2
Endosulfan sulfate	N.D.	<0.2
Endrin	N.D.	<0.1
Endrin aldehyde	N.D.	<0.1
Heptachlor	N.D.	<0.1
Heptachlor epoxide	N.D.	<0.1
Methoxychlor	N.D.	<0.2
Toxaphene	N.D.	<0.5
PCB-1016	N.D.	<0.5
PCB-1221	N.D.	<0.5
PCB-1232	N.D.	<0.5
PCB-1242	N.D.	<0.5
PCB-1248	N.D.	<0.5
PCB-1254	31	<0.5
PCB-1260	N.D.	<0.5

Thu Jul 15 09:43:26 1993

GEOTECHNICAL LABORATORY TEST DATA

Project : D0629-05 Project No. : GTX-375 Boring No. : ---Sample No. : MSC 2-A

Depth : ---Test Date : 7/12/93 Test Method : ASTM D422 Filename : MSC2A Elevation : ---Tested by : krk Checked by : gtt

Location : ---

Soil Description : Brown wilty wand

Remarks : ----

HYDROMETER

Hydromoter ID : hyl Weight of air-dried soil = 38.3 gm Specific Grawity = 2.65 Specific Gravity

Hydroscopia Maisture Content : Weight of Wet Sail = 0 gm Weight of Dry Soil = 0 gm Moisture Content = 0

Elepsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	7.30	24.00	3.03	0.051	8	0.051
2.00	6.90	24.00	2.63	0.036	7	0.036
4.00	6.30	24.00	2.03	0.025	5	0.025
8.00	6.00	24.00	1.73	0.018	4	0.018
15.00	5.60	24.00	1.33	0.013	3	0.013
30.00	5.00	24.00	0.73	0.009	2	0.009

		F	INE SIEVE SET			
Sieve	Sieve O	penings	Weight	Cumulative	Percent	
Hosh	Inches	Millimeters	Retained (gm)	Veight Retained (gm)	d Finer (%)	

0.375"	0.374	9.51	0.00	0.00	100	
#4	0.187	4.75	0.36	0.36	99	
#10	0.079	2.00	1.17	1.53	96	
#20	0.933	0.84	2.19	3.72	91	
#40	0.017	0.42	5.07	8.7 9	78	
#60	0.010	0.25	10.87	19.66	51	
#100	0.006	0.15	8.82	28.48	29	
#200	0.003	0.07	3.92	32.40	19	
#200 P	2,000	3	16.08	48.48	0	

Total Dry Weight of Sample = 48.48

D85 : 0.6139 mm D60 : 0.2970 mm D50 : 0.2442 mm D30 : 0.1525 tom

p15 : 0.0644 sm

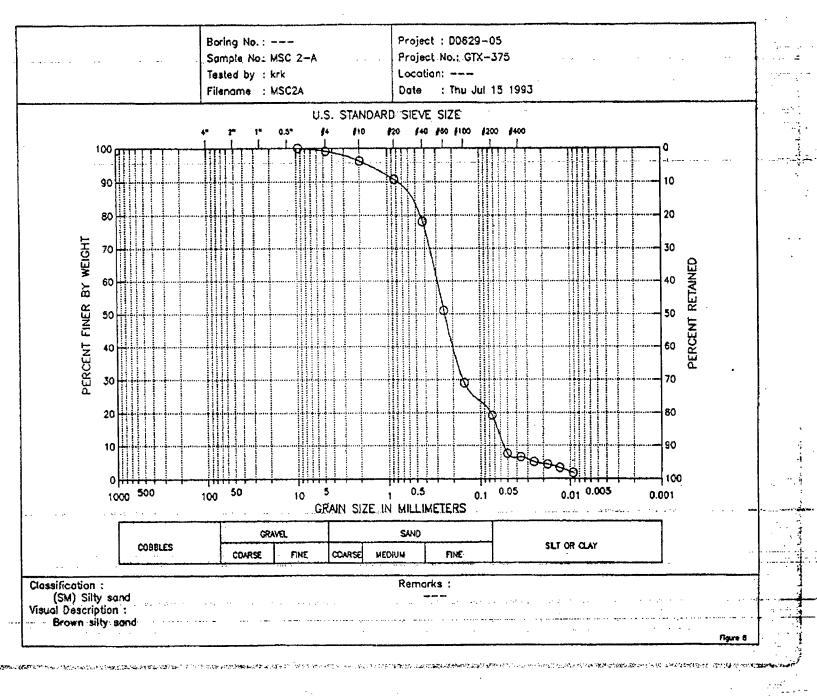
010 : 0.0547 cm

Soil Classification

ASTM Group Name : 58 : Silty mand AASHTO Group Symbol : A-2-4(0)

AAEHTO Group Name : Silty Gravel and Sand

r reargail guilleafach 🐃 Lowerd, MA



.

MSC 3-1

<u>Parameter</u>	Result, mg/Kg
Reactivity	
Sulfide	<1
Cyanide	<0.3
Corrosivity	
pH, S.U.	5.2
Ignitability, Deg. F	>200
Grain Size	Attached
Moisture, %	18
Ash, %	78
BTU's/lb	1070
Total Halogens	<0.01
Total Petroleum Hydrocarbons	21
Pesticides/PCB's	Attached
TCLP Extractables	Attached

Case No. D0629-05

sample: MSC 3-1

Date TCLP Extracted: 6/29/93 Date Analyzed*: 7/6/93

TCLP Extractable Metals:	Result, mg/L	Regulatory <u>Limit, mg/L</u>
Arsenic	<0.1	5.0
Barium	<0.5	100.0
Cadmium	<0.05	1.0
Chromium	<0.05	5.0
Lead	0.20	5.0
Mercury	<0.005	0.2
Selenium	<0.1	1.0
Silver	<0.05	5.0

^{*} Date Completed

Case No. D0629-05

sample: MSC 3-1

Date TCLP Extracted: 6/29/93 Date Analyzed: 7/11/93

TCLP Volatile Organic Compounds:

Compound	Concentration mg/L (ppm)	Regulatory Limit, mg/L (ppm)
Benzene	<0.02	0.5
Carbon Tetrachloride	<0.02	0.5
Chlorobenzene	<0.02	100.0
Chloroform	<0.02	6.0
1,4-Dichlorobenzene	<0.02	7.5
1,2-Dichloroethane	<0.02	0.5
1,1-Dichloroethylene	<0.02	0.7
Methyl Ethyl Ketone (MEK)	<0.5	200.0
Tetrachloroethylene	<0.02	0.7
Trichloroethylene	0.04	0.5
Vinyl Chloride	<0.04	0.2
Surrogates:	% Recovery	<u>Limits</u>
Toluene d8	96	88-110
1,2-Dichloroethane-d.	102	76-114
4-Bromofluorobenzene	97	86-115

sample: MSC 3-1

Case No. D0629-05

Date TCLP Extracted: 6/29/93 Date Prep Extracted: 7/6/93 Date Analyzed: 7/15/93

TCLP Extractable Pesticides/Herbicides:

Compound	Concentration mg/L (ppm)	Regulatory Limit, mg/L (ppm)
Chlordane	<0.01	0.03
2,4-D	<0.05	10.0
Endrin	<0.001	0.02
Heptachlor	<0.001	0.008
Heptachlor Epoxide	<0.001	0.008
Lindane	<0.001	0.4
Methoxychlor	<0.005	10.0
Toxaphene	<0.01	0.5
2,4,5-TP Silvex	<0.05	1.0

Sample: MSC 3-1 Case No. D0629-05

Date TCLP Extracted: 6/29/93 Date Prep Extracted: 7/6/93

Date Analyzed: 7/13/93

TCLP Semivolatile Base/Neutral Extractable Compounds:

Compound	Concentration mg/L (ppm)	Regulatory <pre>Limit, mg/L (ppm)</pre>
1,4-Dichlorobenzene	<0.05	7.5
Hexachlorobenzene	<0.05	0.13
Hexachloro-1,3-butadiene	<0.05	0.5
Hexachloroethane	<0.05	3.0
Nitrobenzene	<0.05	2.0
Pyridine	<0.05	5.0
2,4-Dinitrotoluene	<0.05	0.13

TCLP Semivolatile Acid Extractable Compounds:

Compound	Concentration mg/L (ppm)	Regulatory Limit, mg/L (ppm)
o-Cresol	<0.1	200.0
m-Cresol	<0.1	200.0
p-Cresol	<0.1	200.0
Pentachlorophenol	<0.1	100.0
2,4,5-Trichlorophenol	<0.1	400.0
2,4,6-Trichlorophenol	<0.1	2.0

Surrogates:	<pre>% Recovery</pre>	<u>Limits</u>
Nitrobenzene d5	68	35-114
2-Fluorobiphenyl	77	43-116
p-Terphenyl d14	81	33-141
Phenol d6	54	10-94
2-Fluorophenol	65	21-100
2,4,6-Tribromophenol	39	10-123

P. 02m

Thu Jul 15 09:43:33 1993

CECTECHNICAL LABORATORY TEST DATA

Project : 00629+05 Project No. : GTX+375

Boring No. : ---Sample No. : MSC 3-1 Depth : ---Test Date : 7/12/93 Test Method : ASTM D422 Filename : MSC31 Elevation : ---Tested by : krk Checked by : gtt

Location : ---Soil Description : Brown sand

Renerks : ---

HYDROMETER

Hydrometer ID : hyl Weight of air-dried soil = 32.03 gm

= 2.65 Specific Cravity

Hydroscopic Moisture Content : Weight of Wet Soil = 0 gm Weight of Dry Soil = 0 gm Hoisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	7.90	23.60	3.49 2.79	0.051 0.036	. 9 7	0.051 0.036
2.00 4.00	7.20 6.90	23.60	2.49 2.05	0.025 0.018	6 5	0.025 0.018
8.00 15.00	6.50 6.00	23.50	1.55	0.013	4 2	0.013
30.00	5.20	23.50	0.75	0.009	-	

Sieve	Sieve O	penings	FINE SIEVE SET Weight	Cumulative	Percent
Mesh	Inches	Millimeters	Retained (gw)	Weight Retained (gm)	Finer (%)
0.375"	0.374	9.51	0.00	0.00	100
#4	0,187	4.75	3.18	3.18	92
#10	0.079	2.00	4.32	7.50	81
#20	0.033	0.84	5.32	12.82	68
#40	0.033	0.42	5.30	16.12	55
#60	0.010	0.25	5.95	24.07	40
	0.006	0.15	5.46	29.53	26
#100	0.003	0.07	2.83	32.36	19
#200 Pan	0.003	0.07	15.40	47.76	0

Total Dry Weight of Sample - 47.76

D85 1 2.7080 mm

060 : 0.5571 mm

p50 : 0.3579 mm

030 : 0.1733 mm

D15 : 0.0638 tom

D10 : 0.0528 and

Soil Cleamification

ASTM Group Symbol : SM

named thing Sepress (*******

3. 59亿次进,材本

1 Silty sand ASTM Group Name

ANENTO Group Symbol : A-2-4(0)

AASHTO Group Name : Silty Cravel and Sand

Project : 00629-05 Boring No.: ---Project No.: GTX-375 Sample No.: MSC 3-1 Tested by : krk Location: ---Filename : MSC31 Dote : Thu Jul 15 1993 U.S. STANDARD SIEVE SIZE \$20 \$40 \$60 \$100 \$200 \$400 0.51 100 cm 20 BY WEIGHT 30 40 50 PERCENT 60 20 100 0.1 0.05 0.01 0.005 1000 500 100 50 0.5 0.001 10 GRAIN SIZE IN MILLIMETERS GRAVEL SAND COBBLES COARSE -- MEDIUM -COARSE--FINE -Classification: Remarks: (SM) Silty sand Visual Description: Brown sand

MSC 4-1

<u>Parameter</u>	Result, mg/Kg
Reactivity	
Sulfide	<1
Cyanide	<0.3
Corrosivity	
pH, S.U.	5.8
Ignitability, Deg. F	>200
Grain Size	Attached
Moisture, %	13
Ash, %	85
BTU's/lb	2800
Total Halogens	<0.01
Total Petroleum Hydrocarbons	493
Pesticides/PCB's	Attached
TCLP Extractables	Attached

Case No. D0629-05

sample: MSC 4-1

Date TCLP Extracted: 6/29/93
Date Analyzed*: 7/6/93

TCLP Extractable M	etals:	<u>Result, mg/L</u>	Regulatory <u>Limit, mg/L</u>
Arsenic		<0.1	5.0
Barium		1.2	100.0
Cadmium		<0.05	1.0
Chromium		<0.05	5.0
Lead		<0.2	5.0
Mercury		<0.005	0.2
Selenium		<0.1	1.0
Silver		<0.05	5.0

^{*} Date Completed

sample: MSC 4-1

Case No. D0629-05

Date TCLP Extracted: 6/29/93 Date Analyzed: 7/11/93

TCLP Volatile Organic Compounds:

Compound	Concentration mg/L (ppm)	Regulatory <u>Limit, mg/L (ppm)</u>
Benzene	<0.02	0.5
Carbon Tetrachloride	<0.02	0.5
Chlorobenzene	<0.02	100.0
Chloroform	<0.02	6.0
1,4-Dichlorobenzene	<0.02	7.5
1,2-Dichloroethane	<0.02	0.5
1,1-Dichloroethylene	<0.02	0.7
Methyl Ethyl Ketone (MEK)	<0.5	200.0
Tetrachloroethylene	<0.02	0.7
Trichloroethylene	<0.02	0.5
Vinyl Chloride	<0.04	0.2
Surrogates:	% Recovery	<u>Limits</u>
Toluene d8	95	88-110
1,2-Dichloroethane-d4	114	76-114
4-Bromofluorobenzene	93	86-115

sample: MSC 4-1

Case No. D0629-05

Date TCLP Extracted: 6/29/93 Date Prep Extracted: 7/6/93

Date Analyzed: 7/15/93

TCLP Extractable Pesticides/Herbicides:

Compound	Concentration mg/L (ppm)	Regulatory <pre>Limit, mg/L (ppm)</pre>
Chlordane	<0.01	0.03
2,4-D	<0.05	10.0
Endrin	<0.001	0.02
Heptachlor	<0.001	0.008
Heptachlor Epoxide	<0.001	0.008
Lindane	<0.001	0.4
Methoxychlor	<0.005	10.0
Toxaphene	<0.01	0.5
2,4,5-TP Silvex	<0.05	1.0

Sample: MSC 4-1

Case No. D0629-05 Date Analyzed: 7/15/93

Subject: Pesticides and PCB's Method: EPA 8080

Compound	Concentration mg/Kg (ppm)	Reporting <u>Limit</u>
Aldrin	N.D.	<0.1
alpha-BHC	N.D.	<0.1
beta-BHC	N.D.	<0.1
delta-BHC	N.D.	<0.1
gamma-BHC	N.D.	<0.1
Chlordane	N.D.	<0.5
4,4'-DDD	N.D.	<0.1
4,4'-DDE	N.D.	<0.1
4,4'-DDT	N.D.	<0.1
Dieldrin	N.D.	<0.1
Endosulfan I	N.D.	<0.2
Endosulfan II	N.D.	<0.2
Endosulfan sulfate	N.D.	<0.2
Endrin	N.D.	<0.1
Endrin aldehyde	N.D.	<0.1
Heptachlor	N.D.	<0.1
Heptachlor epoxide	N.D.	<0.1
Methoxychlor	N.D.	<0.2
Toxaphene	N.D.	<0.5
PCB-1016	N.D.	<0.5
PCB-1221	N.D.	<0.5
PCB-1232	N.D.	<0.5
PCB-1242	N.D.	<0.5
PCB-1248	N.D.	<0.5
PCB-1254	N.D.	<0.5
PCB-1260	N.D.	<0.5

Thu Jul 15 09:43:96 1993

GEOTECHNICAL LABORATORY TEST DATA

Project : D0629-05 Project No. : GTX-375 Boring No. : ---

Depth : ---Test Date : 7/12/93 Test Method : A9TM D422 Filename : MSC41 Elevation : ---Tested by 2 krk Checked by : gtt

Sample No. : MSC 4-1 Location : ---

Soil Description : Dark brown sand

Remarks : ---

HYDROMETER

Hydrometer ID : hyl Weight of air-dried soil = 37.58 gm Specific Gravity - 2.65

Hydroscopic Hoisture Content : Weight of Wet Soil = 0 gm Weight of Dry Soil = 0 gm - 0 Moisture Content

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	5,80	23.60	1.39	0.051	4	0.051
2.00	5.20	23.60	0.79	0.036	2	0.036
4.00	5.10	23.60	0.69	0.026	2	0.026
8.00	5.00	23.50	0.55	0.016	1	0.018

		•	PINE SIEVE SET	Cumulative	Percent
Bi cvo	Sieve Openings Inches Millimeters		Weight Rotained	Weight Retained	Finer
Mesh	Inches	WITTIMGCALA	(gm)	(gm)	(%)
~~~~~					
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.18	0.18	100
#20	0.033	0.84	0.72	0.90	98
#40	0.017	0.42	2.92	3.82	90
#60	0.010	0.25	10.68	14.50	61
#100	0.006	0.15	12.48	76.98	28
#200	0.003	0.07	4.60	31.58	16
n	*****		13.74	45.32	0

Total Dry Weight of Sample = 45.32

D85 : 0.3851 mm D60 : 0.2453 #m

p50 : 0.2101 mm D30: 0.1541 mm

D15 : 0.0728 me D10 : 0.0623 ams

Soil Classification

ASTM Group Symbol ASTH Group Mame : Silty sand

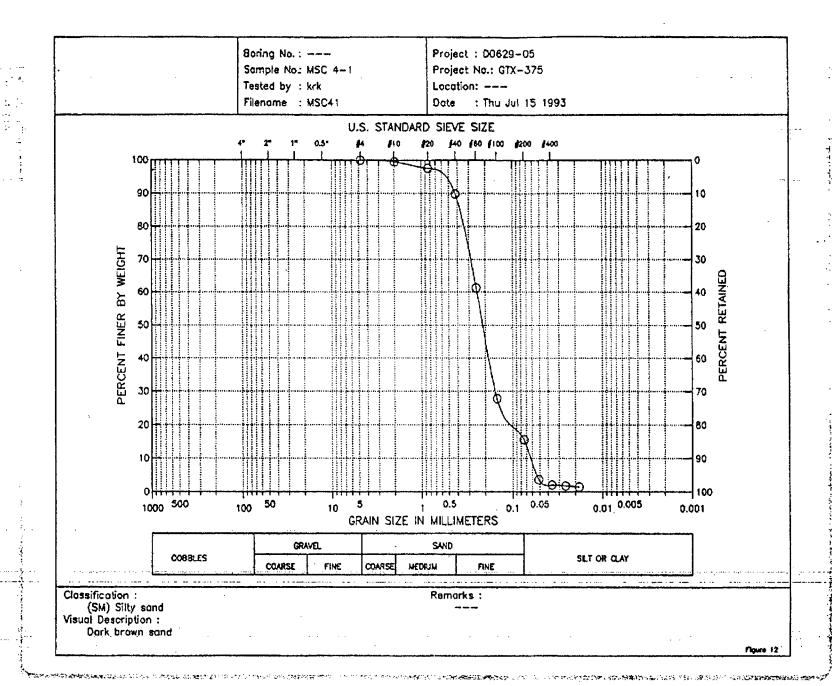
िर्च राज्य रहासासु ध्रम्भ रहा है।

Certificate Ma

ARSETO Group Symbol : A-2-4(0)

: Silty Gravel and Sand ARSHTO Group Name

P. Ø1



#### MSC-A

<u>Parameter</u>	Result, mg/Kg
Total Metals:	
Arsenic	2.6
Barium	206
Cadmium	<2.0
Chromium	250
Lead	43
Mercury	0.06
Selenium	<1
Silver	<2
Semivolatiles	Attached

Sample: MSC-A Case No. D0629-05

Date Extracted: 7/9/93
Date Analyzed: 7/13/93

10

Subject: <u>Semivolatile Base/Neutral Extractable Compounds</u>

Method: EPA 8270

Indeno(1,2,3-cd)pyrene

Compound	Concentration, mg/Kg (ppm)	Reporting Limit
Acenaphthene	N.D.	2
Acenaphthylene	N.D.	2
Acetophenone	N.D.	10
4-Aminobiphenyl	N.D.	10
Aniline	N.D.	10
Anthracene	N.D.	2
Benzidine	N.D.	30
Benzo(a)anthracene	N.D.	2
Benzo(b)fluoranthene	N.D.	10
Benzo(k)fluoranthene	N.D.	10
Benzoic acid	N.D.	40
Benzo(g,h,i)perylene	N.D.	10
Benzo(a)pyrene	N.D.	10
Benzyl alcohol	N.D.	4
Bis(2-chloroethyl)ether	N.D.	4
Bis(2-chloroisopropyl)ether	N.D.	4
Bis(2-chloroethoxy)methane	N.D.	4
Bis(2-ethylhexyl) phthalate	N.D.	2
4-Bromophenyl phenyl ether	N.D.	4
Butyl benzyl phthalate	N.D.	4
4-Chloroaniline	N.D.	4
1-Chloronaphthalene	N.D.	4
2-Chloronaphthalene	N.D.	4
4-Chlorophenyl phenyl ether	N.D.	4
Chrysene	N.D.	4
Dibenz(a,j)acridine	N.D.	40
Dibenz(a,h)anthracene	N.D.	20
Dibenzofuran	N.D.	. 4
Di-n-butylphthalate	N.D.	2
1,2-Dichlorobenzene	N.D.	2
1,3-Dichlorobenzene	N.D.	2
1,4-Dichlorobenzene	N.D.	2
3,3'-Dichlorobenzidine		20
•	N.D.	
Diethyl phthalate p-Dimethylaminoazobenzene	N.D.	2
-	N.D.	4
7,12-Dimethylbenz(a)anthracene	N.D.	20
Dimethylphenethylamine	N.D.	4
Dimethyl phthalate	N.D.	2
2,4-Dinitrotoluene	N.D.	4
2,6-Dinitrotoluene	N.D.	4
Di(n)octyl phthalate	N.D.	2
Diphenylamine	N.D.	20
1,2-Diphenylhydrazine	N.D.	20
Ethyl methanesulfonate	N.D.	4
Fluoranthene	N.D.	2
Fluorene	N.D.	2
Hexachlorobenzene	N.D.	10
Hexachlorobutadiene	N.D.	4
Hexachlorocyclopentadiene	N.D.	30
Hexachloroethane	N.D.	4
~ 1 (1 0 2 1)		

N.D.

Sample: MSC-A Case No. D0629-05

Compound	Concentration, mq/Kq (ppm)	Reporting Limit
Isophorone	N.D.	10
3-Methylcholanthrene	N.D.	20
Methyl methanesulfonate	N.D.	4
2-Methylnaphthalene	N.D.	2
Naphthalene	N.D.	2
1-Naphthylamine	N.D.	10
2-Naphthylamine	N.D.	10
2-Nitroaniline	N.D.	4
3-Nitroaniline	N.D.	4
4-Nitroaniline	N.D.	4
Nitrobenzene	N.D.	4
N-Nitrosodibutylamine	N.D.	10
N-Nitrosodimethylamine	N.D.	10
N-Nitrosodiphenylamine	N.D.	20
N-Nitroso-di-n-propylamine	N.D.	10
N-Nitrosopiperidine	N.D.	10
Pentachlorobenzene	N.D.	4
Pentachloronitrobenzene	N.D.	20
Phenacetin	N.D.	20
Phenanthrene	N.D.	2
2-Picoline	N.D.	10
Pronamide	N.D.	20
Pyrene	N.D.	2
1,2,4,5-Tetrachlorobenzene	N.D.	4
1,2,4-Trichlorobenzene	N.D.	2

### Semivolatile Acid Extractable Compounds

Phenol d6

2,4,6-Tribromophenol

2-Fluorophenol

Compound	Concentration, mg/Kg (ppm)	Reporting Limit
4-Chloro-3-methylphenol	N.D.	10
2-Chlorophenol	N.D.	2
2,4-Dichlorophenol	N.D.	10
2,6-Dichlorophenol	N.D.	10
2,4-Dimethylphenol	N.D.	2
4,6-Dinitro-2-methylphenol	N.D.	40
2,4-Dinitrophenol	N.D.	40
2-Methylphenol	N.D.	2
4-Methylphenol	N.D.	2
2-Nitrophenol	N.D.	20
4-Nitrophenol	N.D.	20
Pentachlorophenol	N.D.	20
Phenol	N.D.	2
2,3,4,6-Tetrachlorophenol	N.D.	10
2,4,5-Trichlorophenol	N.D.	10
2,4,6-Trichlorophenol	N.D.	10
Surrogates:		
Compound	% Recovery	<u>Limits</u>
Nitrobenzene d5	63	23-120
2-Fluorobiphenyl	82	30-115
p-Terphenyl d14	77	18-137

78

36

81

24-113

19-122

25-121

CUSTODY RECORD

Sent to NETL 1274 12 M. Provi	wister Auc when AT ozgor Chain C 053-3430	F CUSTO	DY RECOR	D	5		<del></del>	<del></del> ,	<del>,                                     </del>	Down
DJ. NO. PROJECT NAME  O447-711 Wells  MPLERS: (Signature)	5: H Property	NO. OF CON-			-1 - 1	CALED	1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10/ 10/ 10/ 10/ 10/ 10/ 10/ 10/ 10/ 10/	REMARKS
MPLE DATE TIME	SAMPLE LOCATION	TAINERS	X X X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/ ~/	) X	XX		3/2	9
5 - 1/28 fi) - MI 5 - 1/28 fi) - MI 15 - 1/28 fi) - MI 15 - 1/28 fi) - MI 15 - 1/28 fi) - MI 15 - 1/28 fi) - MI	rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechants Area 7  rechan	1	X X X X X X X X X X X X X X X X X X X	X	X X X X X X X X X X X X X X X X X X X	X X X X X	<del>                                     </del>		X	4-14.012
			Relinquished	d by: /Sign	ature)	-		Date / 1	ime	Received by: (Signature)
Relinquished by: (Signature)	Date / Time Received by: (Signature	his CHATE	1					Date /	Time	Received by: (Signature)
Relinquished by: (Signature)  REMARKS:	Date / Time Received for Laborat	1	1/29/93	ate / Time		Z KA E	DIAT BLOGIE	LON	REME	EDIATION TECHNOLOG Damonmill Square 9 Pond Lane Concord, MA 01742

Attachment 0-1

Non TSCA Soil Waste Profile Sheet

15:36

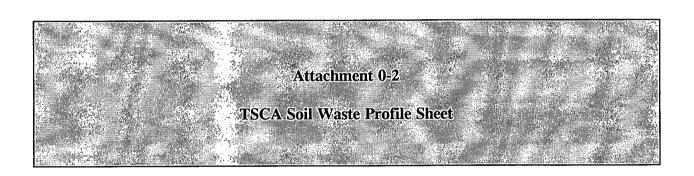
PROFILE CODE #: 2

## GIANT RESOURCE RECOVERY, INC.

### Material Profile

(Please print in blue ink or type) (All signatures must be in blue ink)

i.	A. GENERATOR INFORMATION	
	BEATRICE CO., CT Corporation	MP 6179355523
	Generator Name	US EPA ID#
	208 South LaSalle Street	Chicago, IL 60604
	Street Address / P.O. Box	City / State / Zip
	James Greacen Agent for BEATRICE	(508) 371–1422
	Contact Person	Telephone Number
	B. BILLING INFORMATION	
	RETEC 9 Pond Lane	Concord, MA 01742
	Street Address / P.O. Box	City / State /Zip
	James Greacen Agent for BEATRICE	(508) 371–1422
	Contact Person	Telephone Number
	C. BROKER INFORMATION (if applicable)	
	Name of Broker	
	Name of ploker	Contact Person / Phone #
	Street Address / P.O. Box	City / State Zip
H.	WASTE DESCRIPTION (Check One)	
11.	·	
	( ) Hazardous Liquid ( ) Hazardous Solid	( ) Hazardous Soil ( ) Regulated
	( ) Non-Haz Liquid ( ) Non-Haz Solid	( $\chi$ ) Non-Haz Soil ( ) Non-Regulated
	A. Name of Material: Contaminated Soil	
	B. Generating Process: Site Remediation	
	8	
	(Should be complete enough to compare with process descriptions	in 40 CRF 261.31 and 261.32)
	C. Principal Contaminants: TPH	PCBS
		galsdrumslbsX tons
	•	
	E. Frequency of Shipments: (X) one time ( ) continuous	s, specify frequency:
***	CHIRDING INCORPATION	
<b>f11.</b>	SHIPPING INFORMATION:	
	A. EPA Hazardous Waste: YesX No US EP	PA Codes: <u>NA</u>
	B. DOT Hazardous Material: YesX No Hazardous	ard Class: NA
	C. DOT Description: NA	UN/NA No.: NA
	D. Shipping Method: DRUM Size X	
		IA_ LBS
	c. CERCENT reportable quantity (RQ)	<u> </u>
n.	DINCIGAL DESCRIPTION	
IV.	PHYSICAL DESCRIPTION	
	A. Color: Brown Odor: Yes X No	Describe:
	B. Physical state @ 70 degrees F.: Solid	Specific Gravity:
	C. X Multi-layered Bi-layered Multi phase	sed / Liquid % Sludge % Solid %
	D. Liquid Flashpoint X ► 140°F <140°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F <160°F	00°F None Open Cup Closed Cup
	E. Ph 4.8 to 7.6 or Not Applicable Btu valu	
	F. % of this waste that will pass through a 1/8" screen:	



To saler ma orel

APTUS WASTE PROFILE SHEET

COMPARTY CHARACTERISTICS (mg/L) Other DASE NCUTRALS  Southern C. CO. Herschlord C. C. Herschlord C. C. Herschlord C. C. C. Herschlord C. C. C. Herschlord C. C. C. Herschlord C. C. C. Herschlord C. C. C. Herschlord C. C. C. Herschlord C. C. C. Herschlord C. C. C. Herschlord C. C. C. Herschlord C. C. C. Herschlord C. C. C. Herschlord C. C. C. C. Herschlord C. C. C. Herschlord C. C. C. Herschlord C. C. C. Herschlord C. C. C. Herschlord C. C. C. C. Herschlord C. C. C. C. Herschlord C. C. C. C. Herschlord C. C. C. C. Herschlord C. C. C. C. Herschlord C. C. C. C. Herschlord C. C. C. C. Herschlord C. C. C. C. Herschlord C. C. C. C. C. C. C. C. C. C. C. C. C.
Phone Number, SD8 871 1422 Combreting Process, Six Comedia from Common Name of Waster, Constitution 178 to Cold Rate of Centeration: 300 10015 500 000 f.  (qt).) (quilibrate) displace of Space of Continuous Constitution (qt).) Other Professiones (Qt).  1 toxicity Characteristics (mg/L) Other Professiones (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).
Phone Number, SD8 871 1422 Combreting Process, Six Comedia from Common Name of Waster, Constitution 178 to Cold Rate of Centeration: 300 10015 500 000 f.  (qt).) (quilibrate) displace of Space of Continuous Constitution (qt).) Other Professiones (Qt).  1 toxicity Characteristics (mg/L) Other Professiones (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).  1 tectura (Qt).
Combreting Process. Six Comedea from  Common Name of Waster. Constitution 1995 to Col.  Rate of Centeration: 300 10915 see One for (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (qt). (
Common Name of Waster, Craft mi 178 to Soil Rabo of Centeration: 300 10215 are care to 1 (qt/) (qd/ll/lurer) 3-3 page of 1 (qt/) (qd/ll/lurer) 3-3 page of 1 (qt/) (qd/ll/lurer) 3-3 page of 1 (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (qt/) (
Ratio of Centermion: 300 100135 men care 1  (qV) (qvi /llu/luxeu) 3 -3 place of 1  (qV) (qvi /llu/luxeu) 3 -3 place of 1  (qV) (qvi /llu/luxeu) 3 -3 place of 1  (qvi) (qvi) 0 dher  PESTICIDED DAGE NCUTRALS  Entrin 0 001  Instann 0 001  Methopythly 0 005  Hexachlorothano 0 005  Nitrobenzon 0 005  Pyridins 0 005  Heyrachlor 1000  Heyrachlorothano 0 005  Heyrachlorothano 0 005  Heyrachlorothano 0 005  Heyrachlorothano 0 005  Heyrachlorothano 0 005  Heyrachlorothano 0 005
Ratio of Centermion: 300 100135 men care 1  (qV) (qvi /llu/luxeu) 3 -3 place of 1  (qV) (qvi /llu/luxeu) 3 -3 place of 1  (qV) (qvi /llu/luxeu) 3 -3 place of 1  (qvi) (qvi) 0 dher  PESTICIDED DAGE NCUTRALS  Entrin 0 001  Instann 0 001  Methopythly 0 005  Hexachlorothano 0 005  Nitrobenzon 0 005  Pyridins 0 005  Heyrachlor 1000  Heyrachlorothano 0 005  Heyrachlorothano 0 005  Heyrachlorothano 0 005  Heyrachlorothano 0 005  Heyrachlorothano 0 005  Heyrachlorothano 0 005
(qt) (qt) (yel/lu/lurer) d space of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presen
PERTICIPED DAZE NCUTRALS Findin (O, OO) Inclaim (O, OO) Inclaim (O, OO) Methodythire (O, OO) Methodythire (O, OO) Methodythire (O, OO) Methodythire (O, OO) Mitrobington (O, OO) 24.5-TP (Silvey) (O, OO) Heyechlorobunzene (O, OO) Heyechlorobunzene (O, OO)
PERTICIPED DAZE NCUTRALS Findin (O, OO) Inclaim (O, OO) Inclaim (O, OO) Methodythire (O, OO) Methodythire (O, OO) Methodythire (O, OO) Methodythire (O, OO) Mitrobington (O, OO) 24.5-TP (Silvey) (O, OO) Heyechlorobunzene (O, OO) Heyechlorobunzene (O, OO)
Section O. COI 1.4 Dishierobactorie O. COI 1.5 Dishierobactorie O. COI Mescachioro 1.3 Butadorie O. COI Mescachiorobactorie O. COI Tasaphane O. COI Nitrobactorie O. COI Dishierobactorie O. COI 2.4.5.TP (Bither) S. COI Herschlor S. COI Herschlor S. COI Herschlor S. COI Herschlor S. COI Herschlor S. COI Herschlor S. COI Herschlor S. COI Herschlor S. COI Herschlor S. COI Herschlor S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S. COI Herschlorobactorie S
I motorn (D. (D.)  Matthogyrhlyr (D. (D.)  Matthogyrhlyr (D. (D.)  Tosaphane (D. (D.)  Altrobengene (D. (D.)  24.0 (D.)  24.5 TP (Bither) (D. (D.)  Herschlor (D. (D.)  Herschlor (D. (D.)  Herschlor (D.)
Mathonyrthir ( ) COS  Taxaphane ( ) COS  240 ( ) COS  24,6TP (Sihar) ( ) COS  4,6TP (Sihar) ( ) COS  Herrechlor ( ) COS  Herrechlor ( ) COS
Taraphane (C.Q.) Nitrobenzone (C.Q.) 240 (O.Q.) Pyridine (C.Q.) 24.5TP (Silver) (C.Q.) 24 Divitobiliane (Q.Q.) Heptachica (Q.Q.) Herechicrobenzone (Q.Q.)
2.4.0 CO. CO. Pyridine L. C. CO. 2.4.5.TP (Silver) L. C. CO. 2.4.Dirilloctivene L. C. CO. Herrechlorobunzone L. C. CO. Herrechlorobunzone L. C. CO. CO. CO. CO. CO. CO. CO. CO. CO.
2.4.5.TP (Silver) (C) 05 2.4.Dinitrotalisms (O,05) Heytechlor (O,05) Heytechlorobenzone (O,05)
ACID EXTRACTABLES
O Crosol CO   Pertachtarophenol CO
M-Crocol Co.   Co.
P.Crodol 24,6.Trichlorophenol 50,1
Crosol
Panzana 0.03 1,1-Dichloroetyjono 60.07
Carbon Tetrachlaride COOLMartyl Ethyl Kelone C.O.S
Chloroberzene CO.OI Terachlorochylene 40,07
Chloroform < 0.07 Trichlorostylene < 0.07
1.2-Dichloroethane COV Vinyl Chindre CO. OY
METALS EP Toxicity Test mg/L() Total() ToLP()
Arsenic Co. Silver Co.O.S
83.0um . 0.58 Solenium . 1.0.10
Cecenium Co. O. Thelium Co. O. Thelium Co. O. Thelium Co. O. Thelium Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co. O. Co.
Chromium Orl Beryllium Land Orl Anemony Ur William
Mercury COOOS Nickel
Copper Marganete 18
Uther
CINER HAZARDONS PROPERTIES
Emblosum <u>MO</u> Pyrophono <u> MO</u> Redicactive <u>MO</u> Intections <u>MO</u> Shork Sonsitive <u>MO</u>
WINDOWS TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL THE TALL
INORGANICS (mgr occom)
Cyanides 40,3 Fluorida Chinnis
Suttades 1 locace Herminite
attachments y
Addende Leo Analysis Manus Cither

## APPENDIX P

NON TSCA INCINERATED SOIL TRANSPORTATION AND DISPOSAL

# MIXED CONTAMINANT SOIL SHIPPING SUMMARY

· · · · · · · · · · · · · · · · · · ·	The second of the second of the second second		Promotesta and control of		Direction for Agonales segundinases signification (Control
1	Arrival Date	Manifested Amout	Load #	Arrivai Date	Manifested Amout
Load #	10-4-94	22.32 tons	41	10-8-94	22.17 tons
1	10 <del>-4-94</del> 10 <b>-4-94</b>	19.36 tons	42	10-8-94	21.15 tons
2			43	10-8-94	22.15 tons
3	10-4-94	21.94 tons	43	10-6-94 10-9-94	23.25 tons
4	10-4-94	21.75 tons			1 ,
5	10-4-94	20.57 tons	45	10-10-94	27.13 tons
6	10-4-94	22.96 tons	46	10-10-94	22.66 tons
7	10-4-94	21.66 tons	47	10-10-94	23,96 tons
8	10-4-94	21.77 tons	48	10-10-94	23.27 tons
9	10-4-94	21.49 tons	49	10-10-94	23.57 tons
10	10-5-94	23.30 tons	50	10-10-94	23.11 tons
11	10-5-94	24.75 tons	51	10-11-94	22.10 tons
12	10-5-94	23.18 tons	52	10-11-94	22.92 tons
13	10-5-94	22.34 tons	53	10-11-94	23.34 tons
14	10-5-94	21.32 tons	54	10-11-94	24.06 tons
15	10-5-94	21.63 tons	55	10-11-94	23.03 tons
16	10-6-94	22,67 tons	56	10-11-94	23.03 tons
17	10-6-94	22.90 tons	57	10-12- <del>94</del>	21.32 tons
18	10-6-94	23.80 tons	58	10-12-94	23.33 tons
19	10-6-94	21.21 tons	59	10-12-94	23.22 tons
20	10-6-94	22.56 tons	60	10-12-94	23.42 tons
21	10-6-94	22.20 tons	61	10-12- <del>9</del> 4	21.78 tons
22	10-6-94	22.83 tons	62	10-12-94	22.42 tons
23	10 <del>-6-94</del>	23.13 tons	63	10-12- <b>94</b>	21.94 tons
24	10-6-94	22.99 tons	64	10-12 <b>-9</b> 4	22.60 tons
25	10-6-94	22.24 tons	65	10-12-94	22.63 tons
26	10-6-94	22.29 tons	66	10-12- <b>94</b>	22.98 tons
27	10-6-94	23.16 tons	67	10-18-94	22.88 tons
28	10-7-94	24.57 tons	68	10-12-94	23.73 tons
29	10-7- <del>9</del> 4	23.06 tons	69	10-12-94	23.30 tons
30	10-7-94	21.11 tons	70	10-18-94	20.94 tons
31	10-7- <b>94</b>	23.45 tons	71	10-13-94	22.90 tons
32	10-7-94	21.86 tons	72	10-13-94	21.17 tons
33	10-7-94	22.80 tons	73	10-13 <b>-</b> 94	22.82 tons
34	10-7-94	23.75 tons	74	10-13-94	28.24 tons
35	10-7- <del>9</del> 4	22.11 tons	75	10-13-94	20.57 tons
36	10-7-94	24.65 tons	76	10-17-94	21.85 tons
37	10-7-94	21.57 tons	77	11-16-94	21.06 tons
38	10-8-94	22.03 tons	78	11-16-94	23.81 tons
39	10-8-94	21.53 tons	79	11-16-94	20.43 tons
40	10-8-94	23.08 tons	80	11-18-94	22.10 tons
38 39	10-8-94 10-8-94	22.03 tons 21.53 tons	78 79	11-16-94 11-16-94	23.81 tons 20.43 tons

TOTAL

1,810.23 Tons

## MIXED CONTAMINANT SOIL SHIPPING SUMMARY

Load #	Arrival Date	Manifested Amout	Load #	Arrival Date	Manifested Amout
1	10-4-94	22.32 tons	41	10-8-94	22.17 tons
2	10-4-94	19.36 tons	42	10-8-94	21.15 tons
3	10-4-94	21.94 tons	43	10-9-94	22.15 tons
4	10-4-94	21.75 tons	44	10-9-94	23.25 tons
5	10-4-94	20.57 tons	45	10-10-94	27.13 tons
6	10-4-94	22.96 tons	46	10-10-94	22.66 tons
7	10-4-94	21.66 tons	47	10-10-94	23.96 tons
8	10-4-94	21.77 tons	48	10-10-94	23.27 tons
9	10-4-94	21.49 tons	49	10-10-94	23.57 tons
10	10-5-94	23.30 tons	50	10-10-94	23.11 tons
11	10-5-94	24.75 tons	51	10-11-94	22.10 tons
12	10-5-94	23.18 tons	52	10-11-94	22.92 tons
13	10-5-94	22.34 tons	53	10-11-94	23.34 tons
14	10-5-94	21.32 tons	54	10-11-94	24.06 tons
15	10-5-94	21.63 tons	55	10-11-94	23.03 tons
16	10-6-94	22.67 tons	56	10-11-94	23.03 tons
17	10-6-94	22.90 tons	57	10-12-94	21.32 tons
18	10-6-94	23.80 tons	58	10-12-94	23.33 tons
19	10-6-94	21.21 tons	59	10-12-94	23.22 tons
20	10-6-94	22.56 tons	60	10-12-94	23.42 tons
21	10-6-94	22.20 tons	61	10-12-94	21.78 tons
22	10-6-94	22.83 tons	62	10-12-94	22.42 tons
23	10-6-94	23.13 tons	63	10-12-94	21.94 tons
24	10-6-94	22.99 tons	64	10-12-94	22.60 tons
25	10-6-94	22.24 tons	65	10-12-94	22.63 tons
26	10-6-94	22.29 tons	66	10-12-94	22.98 tons
27	10-6-94	23.16 tons	67	10-12-94	22.88 tons
28	10-7-94	24.57 tons	68	10-12-94	23.73 tons
29	10-7-94	23.06 tons	69	10-12-94	23.30 tons
30	10-7-94	21.11 tons	70	10-12-94	20.94 tons
31	10-7-94	23.45 tons	71	10-13-94	22.90 tons
32	10-7-94	21.86 tons	72	10-13-94	21.17 tons
33	10-7-94	22.80 tons	73	10-13-94	22.82 tons
34	10-7-94	23.75 tons	74	10-13-94	28.24 tons
35	10-7-94	22.11 tons	75	10-13-94	20.57 tons
36	10-7-94	24.65 tons	76	10-17-94	21.85 tons
37	10-7-94	21.57 tons	77	11-16-94	21.06 tons
38	10-8-94	22.03 tons	78	11-16-94	23.81 tons
39	10-8-94	21.53 tons	79	11-18-94	20.43 tons
40	10-8-94	23.08 tons	80	11-29-94	22.10 tons

TOTAL 1,810.23 Tons



## GIANT CEMENT COMPANY

Post Office Box 218 Harleyville, South Carolina 29448

Corporate & Sales: (803) 496-7880

Plant:

(803) 496-5033

CERTIFICATE OF MATERIALS REUSE

#### December 1, 1994

This certificate is to serve as evidence of total recovery of the material received from your company as follows:

	DATE	MAN NO	<u>QUANTITY</u>	POUNDS	
T0850 / CONT.	SOIL				
Beatrice Co.,	CT Corpora	tion			
	94/11/16	00103	21.06	42120.00	
	94/11/16	00101	20.43	40860.00	
	94/11/16	00102	23.81	47620.00	
	94/11/18	00105	22.10	44200.00	
TOTAL	======================================	=======	87.40	174800.00	

This recovered material was used as a raw material supplement in our cement manufacturing, after first being thermally treated in our resource recovery kilns, resulting in its complete destruction.

Very truly yours,

Donna M. Davis

Facility Sales Manager

VCD/tlo

cc: Grr! 

### November 8, 1994

This certificate is to serve as evidence of total recovery of the material received from your company as follows:

======= TOTAL	94/10/18 ====================================		20.94 ====================================	41880.00 =================================	=======
	94/10/18		22.88	45760.00	
	94/10/17		21.85	43700.00	
	$\frac{-2.122}{94/10/13}$		28.24	56480.00	
	DATE	MAN NO	QUANTITY	POUNDS	

This recovered material was used as a raw material supplement in our cement manufacturing, after first being thermally treated in our resource recovery kilns, resulting in its complete destruction.

Very truly yours,

Donna M. Davis Ho Facility Sales Manager

VCD/tlo

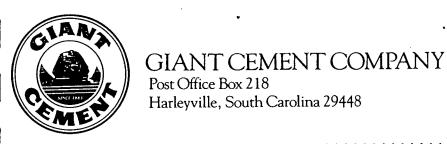
cc: Grr!

and the second second of the second second second second second second second second second second second second The second second second second second second second second second second second second second second second se

### November 8, 1994

This certificate is to serve as evidence of total recovery of the material received from your company as follows:

DATE_	MAN NO	QUANTITY	POUNDS
94/10/07		22.11	44220.00
94/10/07		21.86	43720.00
94/10/08		22.03	44060.00
94/10/08		21.53	43060.00
94/10/08		21.15	42300.00
94/10/08		22.17	44340.00
94/10/08		22.15	44300.00
94/10/08		23.08	46160.00
94/10/09		23.25	46500.00
94/10/10		22.66	45320.00
94/10/10		23.27	46540.00
94/10/10		23.57	47140.00
94/10/10		23.11	46220.00
94/10/10		23.96	47920.00
94/10/10		27.13	54260.00
94/10/11		22.10	44200.00
94/10/11		22.92	45840.00
94/10/11		23.34	46680.00
94/10/11		24.06	48120.00
94/10/11		23.03	46060.00
94/10/11		23.03	46060.00
94/10/12		22.60	45200.00
94/10/12		23.30	46600.00
94/10/12		22.63	45260.00
94/10/12		23.73	47460.00
94/10/12		22.98	45960.00
94/10/12		21.94	43880.00
94/10/12		21.32	42640.00
94/10/12		23.22	46440.00
94/10/12		23.33	46660.00
94/10/12		22.42	44840.00
94/10/12		21.78	43560.00
94/10/12		23.42	46840.00
94/10/13		20.57	41140.00
94/10/13		22.82	45640.00
94/10/13		21.17	42340.00
94/10/13		22.90	45800.00



Corporate & Sales: (803) 496-7880

Plant: (803) 496-5033

CERTIFICATE OF MATERIALS REUSE

### November 8, 1994

This certificate is to serve as evidence of total recovery of the material received from your company as follows:

	DATE	MAN NO	QUANTITY	POUNDS
T0850 / CONT.	SOIL	<del></del> -		
Beatrice Co.,	CT Corpor	ation		
	94/10/04		21.75	43500.00
	94/10/04		21.94	43880.00
	94/10/04		20.57	41140.00
	94/10/04		22.96	45920.00
	94/10/04		21.66	43320.00
	94/10/04		21.77	43540.00
	94/10/04		21.49	42980.00
	94/10/04		22.32	44640.00
	94/10/04		19.36	38720.00
	94/10/05		23.30	46600.00
	94/10/05		21.63	43260.00
	94/10/05		23.18	46360.00
	94/10/05		24.75	49500.00
	94/10/05		21.32	42640.00
	94/10/05		22.34	44680.00
•	94/10/06		22.90	45800.00
	94/10/06		21.21	42420.00
	94/10/06		22.67	45340.00
	94/10/06		23.16	46320.00
	94/10/06		22.24	44480.00
	94/10/06		23.80	47600.00
	94/10/06		22.56	45120.00
	94/10/06		22.99	45980.00
	94/10/06		23.13	46260.00
	94/10/06		22.20	44400.00
	94/10/06		22.83	45660.00
	94/10/06		22.29	44580.00
	94/10/07		24.57	49140.00
	94/10/07		21.11	42220.00
	94/10/07		23.45	46900.00
	94/10/07		21.57	43140.00
	94/10/07		23.06	46120.00
	94/10/07		22.80	45600.00
	94/10/07		23.75	47500.00
	94/10/07	<del>-</del>	24.65	49300.00



TSCA SOIL TRANSPORTATION AND DISPOSAL





# COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE

One Winter Street
Boston, Massachusetts 02108

DPU CERT, 18297

FACILITY MAILS TO GENERATOR

UNIFURINI HAZARDOOS	fanifest uner No	2. Page 1 of <b>1</b>	Information		
3. Generator's Name and Mailing Address REMEDIATION TRANSPORCES BONTRECO. c/o REMEDIATION Technology	CM X 1		anifest Docum BASE 4 map 248 N M	ent Number	
5. Trensporter 1 Company Name PANKLIN FNV IRONNENTAL SERV., INC. M A D 0 8 4 8 1 4 7. Trensporter 2 Company Name 8. US EPA ID Number			Ans (I) Tier I Paone I ans (I) E		(2) (2)
9. Designated Fecility Name and Site Address 10. US EPA ID Number	,025	O2State F		Not Re	quired;
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Contai	ners	13. Total Quantity	14. Unit Wt/Vol	Waste No.
RQ, POLYCHLORNIATED BIPHYENYLS, 9. UN2315, PG II, (ERG#31)	001	01100	015	.к	CB2
<b>b</b> .	1-1-1-	اخلالت	1 1, 1, .		
C. The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th					
d.			11		
J. Additional Discriptions for Materials Letted Above Trickide physical arete and hegaful codd.) PCB SOIL 2 50 PPN a. CODE   PAPI   1719 7	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	K-Handle 	S LL	D.	Above
15. Special Handling Instructions and Additional Information #OUT OF SERVICE DATE  EMERGENCY CONTACT: INFOTRAC 800-535-5053 (//)	9/20/94 120	" A.	\N#, -	KF6.	2B
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately deproper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for according to applicable international and national government regulations.	or manisport of m				
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of wasts and that I have selected the practicable method of treatment, storage, or disposal currently available to me which ment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and can afford.					
Printed/Typed Name  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophilare  Ophila	1			Monte	Day Ye
Printed/Typed Name  Signalus  Signalus  Signalus  Signalus  Signalus  Signalus  Signature	0 Sm	utt	<del></del>	Mont. Mont.	Date
19. Discrepancy Indication Space  Discrepancies ok'd w/Jamie Greave  11a) 1 DT = 20445 k.	r 10/14	4/94			<u> </u>
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manif	fest except as	noted in Ite	m 19.		Date
Printed/Typed Name MEANS Signature	M	Van		Mont    C	DV BF4

P.O. Box 1328 Colleyville, KS 67337 (316) 251-6383 .

october 20, 1994

# CERTIFICATE OF DISPOSAL

NO. 24754

BEATRICE CO. C/O REMEDIATION TECHNOLOGIES 278 SALEM STREET REAR WOBURN, MA 01801-

- A. THIS IS TO CERTIFY THAT THE HAZARDOUS SUBSTANCE MANIFESTED TO APTUS ON APTUS DOCUMENT #KF62B WAS DISPOSED OF IN ACCORDANCE WITH 40 CFR 761 (AND 40 CFR 264 IF APPLICABLE) AS OF 10/15/94. ATTACHED, IS A DETAIL REPORT WHICH IDENTIFIES THE DATE(S) OF DISPOSAL AND THE PROCESS UTILIZED FOR EACH WASTE LISTED.
  - B. UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S. C. 1001 AND 15 U.S. C. 2615), I CERTIFY THAT INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE AND COMPLETE. AS TO THE IDENTIFIED SECTIONS(S)(A.) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND I CERTIFY AS THE COMPANY OFFICIAL FOR THE SUPERVISORY RESPONSIBILITY PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, ACCURACY, MADE THE VERIFICATION THAT THIS INFORMATION IS HAVING TRUE, ACCURATE, AND COMPLETE.

APTUS

EPA ID # KSD981506025

sanles PETER D. HANLEY P.E. MANAGER, ENVIRONMENTAL AFFAIRS



In case of emocraticy of spill, immediately call the wational desponse Lynier Louvi 474-64, 22.



### **COMMONWEALTH OF MASSACHUSETTS** DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF HAZARDOUS WASTE**

**One Winter Street** 

Boston, Massachusetts 02108

ase print or type. (Form designed for use on elite (12-pitch) typewriter.)		······				
UNIFORM HAZARDOUS 1. Generator US EPA ID I WASTE MANIFEST 1. P 6 1 7 9 8	ь 5 5 2 8 00°	enifest DBA	2. Page of <b>1</b>	i i	n in the shade red by Federa	
3. Generator's Name and Mailing Address  DEMERITATION TRANSPORTER TO BEATRICE	ompany c/o Rem	POINT		Menifest Docum		N 37 - 6
9 POND LANE, DAMON MILL SQUARE, CONCORD.	-MA 275 Estr	plog 15	VA.	H37524	Cal Cal	
4. Generator's Phone (508 ) 935-5523 Qu James	sam WUBURN	MA		RN MA		SINCE!
5. Transporter 1 Company Name (1) 10-136.94	ID Number	0180	A THE RESERVE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF T	Transcip _{ja} s	1 4	8 3 3 3 5 T 1 2 4
FRANKLIM ENVIRONMENTALESERV. ING. MA	<del>0   0   0   4   8   1   4</del>	1 3 6	m (d)			
7. Translate 8.	US EPA ID Number			sporter's Phone	08-38	e of 5
9. Designated Facility Name and Site Address 10.	0 6 8 9 1 8 · US EPA ID Number	4.0.9				
APTUS Highway 169n	5060		F.(1)	porter a Phone (	216 659	9181
COPPENSITE VC COOR					₩YNot Ho	
A D D D D D D D D D D D D D D D D D D D	0 9 8 1 8 8 6			ity a Phone 316	I management	1480 car
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and	d ID Number)	12. Conta	Type	13. Total Quantity	. 14. Unit Wt/Vol	Wasta No.
*RQ, POLYCHLORNIATED BIPHYENYLS,	•					C 1 7
9. UN2315, PG II,		boli	оп (	11015	·	
b.			U II 12	VULV	- K	
		<b>i</b> .				
		· .		· •.		53. 33
	Same of the same			4 1 4 14		
d.				<del> </del>		*****
<b>4.</b>		<b>!</b> .				
J. Additional Discriptions for Materials Listed Above Include physical state			Si ilians			
PCB SOIL 50 PPM Set 19 19 19 19 19 19 19 19 19 19 19 19 19				lling Codes for W	Med Tilled	Above
- CODE: PAP107197		1 14 34 5 1 4 34 5	-8C		16/	
					5 7 3	
15. Special Handling Instructions and Additional Information OT OF	SEDVICE DATE O	170/04		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	d	
₹	SCKAICC AWIE 3	720794			1 F 6	_) <i>L</i>
EMERGENCY CONTACT: INFOTRAC 800-53	5-5053 W	0 72	058	15		
<ol> <li>GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment proper shipping name and are classified, packed, marked, and labeled, and are in all re-</li> </ol>						
according to applicable international and national government regulations.		• .				
If I am a large quantity generator, I certify that I have a program in place to reduce the and that I have selected the practicable method of treatment, storage, or disposal curr	ently available to me which mi	nimizes the p	esent and f	uture threat to hum	an health and tl	ae euminu
ment; OR, if I am a small quantity generator, I have made a good faith effort to minimiz can afford.	e my waste generation and sel	ect the best v	vaste mana	gement method tha	t is available to	
/ Printed/Typed Name // /	Startature /	1-	·		Month	Date Day Year
And Acrid al theat for Berlia	e Stand				V n	V 77 5 W
17. Transporter 1 Acknowledgement of Receipt of Materials						Date
Printed/Typed Name	Signature	6 /			Month	Day Year
18. Transporter 2 Acknowledgement of Receipt of Materials	Wayne X	rafe		<u> -                                   </u>	_ y_b_	V WYY
Printed/Typed Name	Signature				Month	Day Year
19. Discrepancy Indication Space Discrepancias obid	•	<del></del>				
11a) 1DT = 19009 k.	//Jamie Greace	r 10/	14/94			
/ ADA - 17007 K.						
20. Facility Owner or Operator: Certification of receipt of hazardous materia	is covered by this manifes	t except es	noted in It	em 19.		
						Date
MICRYMEANS	Siapping 151	11.			Month	Dex Xegr
http://www.tition.com	Musy	" Ula	ee_		14	1917

FACILITY MAILS TO GENERATOR

Aptus, Inc.
Environmental Services

P.O. Box 1328 Colleyvite, KS 67337 (316) 251-6380

## APTUS

October 26, 1994

## CERTIFICATE OF DISPOSAL

NO. 24844

BEATRICE CO. C/O REMEDIATION TECHNOLOGIES 278 SALEM STREET REAR WOBURN, MA 01801-

- A. THIS IS TO CERTIFY THAT THE HAZARDOUS SUBSTANCE MANIFESTED TO APIUS ON APTUS DOCUMENT #KF63B WAS DISPOSED OF IN ACCORDANCE WITH 40 CFR 761 (AND 40 CFR 264 IF APPLICABLE) AS OF 10/24/94. ATTACHED, IS A DETAIL REPORT WHICH IDENTIFIES THE DATE(S) OF DISPOSAL AND THE PROCESS UTILIZED FOR EACH WASTE LISTED.
- B. UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S. C. 1001 15 U.S. C. 2615), I CERTIFY THAT INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE AND COMPLETE. THE IDENTIFIED SECTIONS(S)(A.) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**APTUS** 

EPA ID # KSD981506025

PETER D. HANLEY, P.E.

MANAGER, ENYTRONMENTAL AFFAIRS

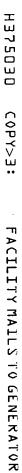


TAILINGS AND STUMPS TRANSPORTATION AND DISPOSAL

TAILINGS SHIPPING SUMMARY

	Arrival	Manifested
Load #	Date	Amout
1	10-18-94	22.94 tons
2	10-18-94	22.66 tons
3	10-18-94	24.33 tons
4	10-18-94	21.73 tons
5	10-18-94	23.01 tons
6	10-18-94	23.45 tons
7	10-18-94	21.78 tons
8	10-18-94	21.21 tons
9	10-19-94	21.91 tons
10	10-19-94	21.44 tons
11	10-19-94	23.34 tons
12	11-17-94	24.84 tons
13	11-18-94	21.55 tons
14	11-18-94	23.47 tons
15	12-16-94	18.68 tons
16	12-16-94	15.76 tons

TOTAL 352.1







# COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE

One Winter Street

Boston, Massachusetts 02108

as	e print or type. (Form designed for use on elite (12					<del></del>	<del></del>			
T	UNIFORM HAZARDOUS	1. Generator US EP			Manifest Document No.	2. Pag	′. I		in the shade	
1	WASTE MANIFEST	M_P_6_1_7_9	13151	51512131	DOYOR	of	22 1 2 2 2 2 2	A Larrence (A Laurence Charles)	red by Federa	NAC ASTAGA 150
Γ	3. Generator's Name and Mailing Address			•		Regional Action	Company of the	ifest Docun 37503	nent Number	
	BEATRICE COMPANY C/O RETE	01762							RICE CO	AND ANIV
	9 POND LANE, CONCORD, MA 4. Generator's Phone (508 ) 371-142	ロナ742 ク							WOBURN	
-	4. Generator's Phone (310) 37 (-142)  5. Transporter 1 Company Name	6.		US EPA ID Nur	nber		te Tran			
1	5. Transporter 1 Company Name FRANKLIN ENVIRONMENTAL SERV			01814181		- LS3*8*6***	1 200	100	<b>A</b>	
+	7. Transporter 2 Company Name	8.		US EPA ID Nur		D. Tre	nsport	er's Phone		84-6151
	7. Italisporter 2 Company Marie	Ĭ	1	1 1 1		E-Su	ite Tran	s.ID		
$\vdash$	9. Designated Facility Name and Site Address	10	).	US EPA ID Nur	nber	到最		17161		
- 1	ENVIROSAFE SERVICES OF LATO								AND MA	
- 1	376 OTTER CREEK RD., P.O. S	iux 16751		0 A T G	κ.δ. ۳. Δ. s				Not R	
1	DREGON, OHIO 43616-7571	<u> </u>	14 19 1	0 14 15 12 1		າ H.∉Fa ntainers	CINTY:S	13.	9 255- 14.	5100
	11. US DOT Description (Including Proper Shippin	ng Name, Hazard Clas	ss, and ID	Number)	i	1		Total	Unit Wt/Vol	Waste No.
1					No.	Туре	<u>u</u>	uantity	941/401	2012-00-00-00-00-00-00-00-00-00-00-00-00-00
-	a.HAZARDOUS WASTE SOLID, N.	.U.S.,				_[			L	n 0 0 8
	9, NA3077, PS III (MARINE RQ(CHLORDANE, DOOS, DO20)	(EPG#31)	,		bo	DIT	00	0116	Γγ	0 2 0
+		VC:SONOTI			751	12113		<u> </u>	-	
	ь.								]	
i									<u> </u>	Mark Control
<u> </u>	c.									
À						1.				
5						_{			1	\$24 [108] P.S.
₹	d.				<b>]</b> .					
					1 1	1 1	1	1 1	İ	
-	J. Additional Descriptions for Materials Listed At	ove (include physica	l state and	( hazard code.)					Vastes Listed	Above
	HAZARDOUS CONTAMINATED SO	IL,		,			56,6		1 c.	€ €
-	a 15698-00/ S	c.					ก กั		1	**************************************
				*			リク	1		
	b. ,	d.	<del></del>	· · · · · · · · · · · · · · · · · · ·	<u> </u>	<u> </u>		oj €*ase≤i	. d. ને સંક્રાજ	and the second second
	15. Special Handling Instructions and Additional	information								
	THEODERICA CONTACT: IMPOS	מאר מאח במי	: EVE.	)					15	1767
}	C. ILIVOLITO CONTINUES	RAC 800-535 the contents of this cons	igoment ar	e fully and accurat	ely described abo	ve by				
١	<ol> <li>GENERATOR'S CERTIFICATION: I hereby declare that proper shipping name and are classified, packed, mar according to applicable international and national government.</li> </ol>	ked, and labeled, and are	in all respec	cts in proper condi	tion for transport	24 Lindinarah				
			uce the volu	me and toxicity of	waste generated	to the degre	e i have o	determined to	be economica	Ily practicable the environ-
	If I am a large quantity generator, I certify that I have and that I have selected the practicable method of tre ment; OR, if I am a small quantity generator, I have m	atment, storage, or dispo ade a good faith effort to	sal current minimize m	ly available to me v ly waste generatio	vnich minimizes ti n and select the b	est waste m	anageme	ent method th	at is available t	to me and that I
Ì	can afford.	·		$\sim$ 1		/				Date
	Printed/Typed Name / /1	100		Signaline	01				Mont	h Day Ye.
1	m/ LAQUICANO/Ment	for Det	1/	1	21				_ X X	XXD
딝	17. Transporter 1 Acknowledgement of Rec	eipt of Materials		<u> </u>	· · ·				Mont	Date th Day Ye
Ň	Printed/Typed Name		1	Signature //	ult				1 21	اً المرجم إنّ
S	18. Transporter 2 Acknowledgement of Rec	aint of Materials		Lan WIL	$v_{l}$				1 2	Date
R	/ 18. Transporter 2 Acknowledgement of Rec Printed/Typed Name	CIPE OF MATERIALS		Signature		· · · · · · · · · · · · · · · · · · ·			Mont	th Day Ye
T E R	· ····································									<u></u>
_	19. Discrepancy Indication Space									
F A										
Ç	·									
L	20. Facility Owner or Operator: Certification of	receipt of hazardous	materials	covered by this	manifest excep	t as noted	in Item	19.		
Ī			<del></del>		<del>, ,</del>	10				Date
Ÿ	Printed/Typed Name ( )	•		Signature		////			נחסימ ער או	5 1/1 6
	1 Pub John K	•		11/10					<u>"4</u>	-14 T

Form Approved OMB No. 2050-0039. Expires 9-30-94

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

USEPA ID OHD 045243706 Ohio EPA 03-48-0092 8

Oregon, Ohio 43615-7571

### CERTIFICATE OF DISPOSAL

PART A — Generator Int			1418 616	73332
Senerator Name	BEATRICE	17/07	_Generator USEPA ID#	
fanifest Document No		00/08	_	
PART B — Waste Dispos	sal Information		•	
Product Code Number	Disposal Date Mo. Day Year	Disposal Method	Container No. Type	Weight
15698 003	12/6/94	98/11/11/	1 TR	15.76
			·	
container Types = DR-Dru		er; VT-Vacuum Tanker; RO-Rolloff es at this facility. I certify that the abov	e described wastes were	disposed according to
SIGNATURE			)ATE	16.79
TITLE	- Call	m Coolner		

SCALE MASTER

DISTRIBUTION OF COPIES
WHITE — Office
CANARY — Generator
PINK — EPA

ESOI C/D 56-1650-3P Form 101





# DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE

One Winter Street

Boston, Massachusetts 02108

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

	UNIFORM HAZARDOUS 1. Generator US WASTE MANIFEST MIP 15 1 1 7	S EPA ID No. 7   9   3   5   5   5		men No	2. Page 1	Information is not requir			
	3. Generator's Name and Mailing Address SEATRICE COMPANY C/O RETEC				MA	Manifest Docum H37503.			MA.
	9 PONO LAME, COMCOPD, MA 01742 4. Generator's Phone (508 ) 371-1422			, -	48 SA	Gen IDBEAT! LEM ST.,	VICE CO WOBURN	IMPANY I, MA	E H
	5. Transporter 1 Company Name FRANKLIN ENVIRONMENTAL SERV., INC.	M1A101018		1 3 6	C.State 1	303 i	1 1 1		750
	7. Transporter 2 Company Name  9. Designated Facility Name and Site Address		'A ID Number  'A ID Number		E. State	porter's Phone { Trans. ID	000 1/3	004=0101	ŢĒ
	ENVIROSAFE SEPTICES OF OHIO 875 OTTER CREEK RD., P.O. BOY 15751	10. US EF	A 10 Number		F. Transp	porter's Phone ( Facility's ID	) (Se		E <ado< td=""></ado<>
	OREGON, OMIO 43616-7571	0 14 10 10 14	5 12 14 13 1	<u> 10 و 7</u>					
	11. US DOT Description (Including Proper Shipping Name, Hezard	Class, and ID Numbe	r)	12. Conta No.	Type	13. Total Quantity	14. Unit Wt/Vol	Vaste No.	ů
	a.HAZARDOUS WASTE SOLID, N.O.S., 9. MA3077, PG III (MARINE POLLUTAN RQ(CHLORDANE, DOOB,DO20), (ERG#31)	VT),	(	DØV	0110	PO1/5	Y	0 0 8 0 0 2 0	-Ti
,	b.			11		<u> </u>			ACIL:
7	c.			·					ITY MA
1	d.			. ,					AILS
	J. Additional Descriptions for Materials Listed Above finclude phys HAZARDOUS CONTAMINATED SOIL a. 15698-0012	sical state and hazard	code.)		K. Handli	ing Codes for W	astes Listed	Above	TO GEN
	) c.			(	D	Am-	D81		ERA
	15. Special Handling Instructions and Additional Information				(	$\mathcal{I}_{(X_i)}$	687	37360	) TOR
	EMERGENCY CONTACT: INFOTRAC 800-5  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this or proper shipping name and are classified, packed, marked, and labeled, and according to applicable international and national government regulations.	l are in all respects in pro	d accurately descri per condition for tr	ibed above by ansport by hi	/ ghway	! 0 -	<u>- 0 1</u>		_
	If I am a large quantity generator, I certify that I have a program in place to and that I have selected the practicable method of treatment, storage, or diment; OR, if I am a small quantity generator, I have made a good faith effortion afford.	reduce the volume and to	e to me which min	imizes the pr	esent and ful	ture threat to huma	en health and t	o me and that !	
	An LAQUIDAIN (Ascat Ga Bent	Signature (C)			<b>/</b>		Month V Z	Date  Day Year  Day Year	
	17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name	Signatu	re /				Month	Date Day Year	
2000	18. Transporter 2 Acknowledgement of Receipt of Materials	Bri	Shel	Br		7.	_ ∤ ₹	Date Date	1
	Printed/Typed Name	Signatu	re				Month	Day Year	
	19. Discrepancy Indication Space	•							
	20. Facility Owner or Operator: Certification of receipt of hazardou	us materials covered	y this manifest	except as	noted in the	m 19.		Date	
	Printed/Typed Name E & JICELE	Signatu.	re	J	収		Money	POPH"	

Form Approved OMB No. 2050-0039 Expires 9:30-9:
EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

applicable state & federal permits and requirements imposed by the generator.

9

### CERTIFICATE OF DISPOSAL

PART-A — Generator Information BEATRICE Generator USEPA ID# Generator Name Manifest Document No. PART B — Waste Disposal Information Container **Product Code** Disposal Date **Disposal Method** Weight No. Type Mo. Day Year Number Disposal Method = D081-Landfill; D082-Landfarm; T04-Treatment Container Types = DR-Drum; TR-Truck; CT-Cargo Tanker; VT-Vacuum Tanker; RO-Rolloff

certify receipt and disposal of the above identified wastes at this facility. I certify that the above described wastes were disposed according to all

SCALE MASTER

DISTRIBUTION OF COPIES
WHITE — Office
CANARY — Generator

SIGNATURE .

PINK — EPA

ESOI C/D 56-1650-3P Form 101



GENE Ř

A T O onat



### COMMONWEALTH OF MASSACHUSE DEPARTMENT OF ENVIRONMENTAL PRO DIVISION OF HAZARDOUS WAST

One Winter Street

Boston, Massachusetts 02108

ETTS OTEC	TION		
Ε	: :01	2 121	<b>7</b> :
		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	
النانيت	2-0500 1	Information in th	a.eh

**H375**0

ū

n

COPY>3

ACILITY MAILS TO GENERATOR

lease print or type. (Form designed for use on elite (12-pitch) typewriter.) 1. Generator US EPA ID No. Manifes UNIFORM HAZARDOUS is not required by Federal law. WASTE MANIFEST A. State Manifest Document Number 3. Generator's Name and Mailing Address MA H375032 BEATRICE COMPANY C/O RETEC B. State Gen. IDBEATRICE COMPANY 9 POND LAME, CONCORD, MA 01742 4. Generator's Phone (508 ) 371-1422 4. Generator's Phone (508) 48 SALEM ST., WOBURN, MA C:State Trans. ID US EPA ID Number 5. Transporter 1 Company Name DANK IN ENVIRONMENTA [M:A:D:0:8:4:8:1:4:1:3: D Transporter's Phone 508 384-6151 US EPA ID Number 7. Transporter 2 Company Name E. State Trans. ID. US EPA ID Number 10 9. Designated Facility Name and Site Address ENVIROSAFE SERVICES OF OHIO F. Transporter's Phone ( Not Required G. State Facility's ID 876 OTTER CREEK PD., P.O. BOX 16751 0 H D 10 14 15 12 14 13 17 10 15 H. Facility's Phone 419 255-5100 OPEGON. OHIO 43615-7571 13. Containers Total Unit Waste No 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Quantity WtVal tolun (14) a.HAZARDOUS WASTE SOLID, N.O.S. 0 0 8 9, NA3077, PG III (MARINE POLLUTANT), RÓ(CHLORDÁNE, DOOB, DO20), (ERG#31) OPVIDITUPOVS c. d. Westes Listed Above K. Handling Code 3. Additional Descriptions for Materials Listed Above (include physical state and hazard code.) HAZARDOUS CONTAMINATED SOIL .15698-001 15. Special Handling Instructions and Additional Information EMERGENCY CONTACT: 800-535-5053 INFOTRAC 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I Date Date 17. Transporter 1 Acknowledgement of Receipt of Materials-Month Day Year Printed/Typed Name 2 Acknowledgement of Receipt of Materials 18. Transporter Day Year Month Printed/Typed Name 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Date Printed/Typed Name Signature

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

orm Approved OMB No. 2050-0039. Expires 9:30-94



vical! the National Response Center

case of emergency



# COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE

One Winter Street

Boston, Massachusetts 02108

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 1. Generator US EPA ID No. Manifest 2. Page 1 Information in the shaded areas **UNIFORM HAZARDOUS** M,P,6,1,7,9,3,5,5,5,2,3,000 W 0 4 is not required by Federal law **WASTE MANIFEST** A. State Manifest Document Number 3. Generator's Name and Mailing Address
BEATRICE COMPANY C/O RETEC LPBPTEH AM B. State Gen. IBEATRICE CO. 4 SALEM ST., WOBURN, 9 POND LANE, CONCORD, MA 01742 4. Generator's Phone ( 508 ) 371-1422 C.State Trans. ID US EPA ID Number 5. Transporter 1 Company Name 14 A D O 8 4 8 11 4 11 3 16 O F 17 15 16 11 K C FRANKLIN ENVIRONMENTAL-SERV. . - INC. D. Transporter's Phone (508 384-6451 US EPA ID Number 7. Transporter 2 Company Name E. State Trans. ID DHDD6891BAP WILLS TRUCKING OHI TISIGILKELI US EPA ID Number 9. Designated Facility Name and Site Address ENVIROSAFE SERVICES OF OHIO F. Transporter's Phone DUD 190 -6237 Not Required P.O. BOX 16751 G. State Facility's ID 876 OTTER CREEK ROAD. 0 | H | D | 0 | 4 | 5 | 2 | 4 | 3 | 7 | 0 | 6 | H. Facility's Phone (419. ) 255-5100 OREGON, OH 43616-7571 12. Containers 13. Waste No. 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Total Unit Wt/Vol No. Type Quantity a HAZARDOUS WASTE SOLID, N.O.S., 9, NA3077, PG III (MARINE POLLUTANT) 0 0 8 DI LOUDING LOS Υ RQ(CHLORDANE, D008, D020), (ERG#31) for Wastes Listed Above J. Additional Descriptions for Meterials Listed Above (include physical state and hazard code.)

HAZARDOUS CONTAMINATED SOIL; K. Handling 3. 15698-001 15. Special Handling Instructions and Additional Informatio **EMERGENCY CONTACT:** INFOTRAC 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator. I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that i can afford. Date Month Day Printed/Typed Name Date 17. Transporter 1 Acknowledgement of Receipt of Materials Day Year Printed/Typed Name Date 18. Transporter 2 Acknowledgement of Receipt of Materials Day Printed/Typed Narde 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as repted n Item Printed/Typed Name Signature Form Approved OMB No. 2050-0039, Expires 9-30-94

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

### CERTIFICATE OF DISPOSAL

	00104	_Generator USEPA ID#	•
Information			
Disposal Date Mo. Day Year	Disposal Method	Container No. Type	Weight
11/8/94	2811 1 1 1 1	1 TR	23.47
1			
	Information Disposal Date	Information  Disposal Date  Disposal Method	Information Disposal Date Disposal Method Container

TRIBUTION OF COPIES WHITE - Office CANARY — Generator PINK - EPA

ESOI C/D 56-1650-3P Form 101





COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF HAZARDOUS WASTE One Winter Street

Boston,	Massachusetts	02	108

DOSION, Massachusetts 0210	70	$ H_{\odot}$	7	0 -	- III la
ease print or type. (Form designed for use on elite (12-pitch) typewriter.)			MOV_	2_3_1994_	<u> </u>
ONI ONIVITIAZANDOOS	anifest ment No.	2. Pa	TW	on in the shade	
	100	of		uired by Federa	-
3. Generator's Name and Mailing Address BEATRICE COMPANY C/O RETEC			te Manifest Doci		
9 POND LANE, CONCORD, MA 01742					
4. Generator's Phone (508) 371-1422		24 S	te Gen. IBEATI	HOBORN	, MA
5. Transporter 1 Company Name 6. US EFA ID Number FRANKLIN ENVIRONMENTAL SERV., INC. M. IA ID ID IB I4 IS IT IA I	d 12.16		te Trans. ID	W A I	
7. Transporter 12 Company Name 8. US EPA ID Number	10 0		insporter's Phone		4-6 <del>15</del> 1
WILLS TRUCKING PHDDB89184	409	E. Sta	ite Trans. ID	800-80	
9. Designated Facility Name and Site Address 10. US EPA ID Number	<del>V</del>		THE		
ENVÍROSAFE SERVICES OF OHIO		t	nsporter's Phone		······································
876 OTTER CREEK ROAD, P.O. BOX 16751	706	2	te Facility's ID	Not Re	
OREGON, OH 43616-7571   01H1D101415121413					
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Cont <b>No.</b>	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.,
a HAZARDOUS WASTE SOLID, N.O.S., 9, NA3077, PG III (MARINE POLLUTANT)				0	0 0 8
DOLON CODING DOCC DOCC (MDC/ICA)	201	b it	00015	-  Y 1	0 2 0
b.	F-1-	<u> </u>	F 1-1-F	1	9 24 9
		<u> </u>	1 1 1 1		21.317.818
c.					<b>维护,数</b> 数
· .	1 1	. I	1 1 1 1		
d. :	<u> </u>		<del></del>		
		4		<u></u>	اللللل
J. Additional Descriptions for Materials Listed Above (include physical state and hazard code.) HAZARDOUS CONTAMINATED SOIL:	,	E 10, 118	nathing Space for	Wastes Listed	Above (
a. 15698-001/3			USIN	0 ( \ : 1 ^a	5/ 5
73			/ )		1
b. G.		<u>i</u>		d.	<u> </u>
15. Special Handling Instructions and Additional Information				THE PARTY OF SEC. ALL ALL	· designation is a second
		21	184T	49/0	1/1/2
. EMERGENCY CONTACT: INFOTRAC 800-535-50			1011	1100	$\frac{100}{100}$
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately descriptore shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for traccording to applicable international and national government regulations.	ribed above b ransport by h	y ighway			
If I am a large quantity generator. I certify that I have a program in place to require the volume and toxicity of waste ge	enerated to tl	he degree	I have determined to	be economically	y practicable
and that I have selected the practicable method of treatment, storage, or disposal currently available to me which the ment; OR, if I am a small quantity generator, I have made a good faith effort to information will waste generation and sele-	airnizes the p	resent an	d tuture threat to hu	man nealth and ti	ne environ-
ment; OR, if I am a small quantity generator, I have made a good lattle enter the maste generation and set can afford.		2 0 . 19	,		Date
: Printed/Typed Name /				L Month	

l		<i>~</i>	
An I AWICACA ACAT for Bestice	Signature	/	Month Day Year
17. Transporter 1 Acknowledgement of Receipt of Materia's			Date
Printed/Typed Name	Signature		Month Day Year
BUFIEL	16	15	1. 1. 1-4.1.
18. Transporter 2 Acknowledgement of Receipt of Materials	100	a final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final final fina	) Date 1
Printed/Typed Name	Signature	, :/	Month Day Year
		/	
19. Discrepancy Indication Space		7/	
		$\nu$	

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this ma fest except as noted in Item 19.

Printed/Typed Name Signature

876 Otter Creek Rd., P.O. Box 167571

regon, Ohio 43616-7571

#### CERTIFICATE OF DISPOSAL

B — Waste Disposal Information  Product Code Number	RT A — Generator Inf	BEAT	78162									JSEPA ID#	35.332
Product Code Number Disposal Date Mo. Day Year Disposal Method Container No. Type Weight					$\mathcal{O}$	0/0	20						
Number Mo. Day Year No. Type Weight  - (9803)   1799   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178   178	RT B — Waste Dispos	al Information	n										
al Method = D081-Landfill; D082-Landfarm; T04-Treatment her Types = DR-Drum; TR-Truck; CT-Cargo Tanker; VT-Vacuum Tanker; RO-Rolloff	Product Code Number	•				Disp	osal M	ethod					Weight
al Method = D081-Landfill; D082-Landfarm; T04-Treatment her Types = DR-Drum; TR-Truck; CT-Cargo Tanker; VT-Vacuum Tanker; RO-Rolloff	15-698003	H + C	7 97	17	21				1_		1	TR	24.84
ner Types = DR-Drum; TR-Truck; CT-Cargo Tanker; VT-Vacuum Tanker; RO-Rolloff					1	<u> </u>			1_				
ner Types = DR-Drum; TR-Truck; CT-Cargo Tanker; VT-Vacuum Tanker; RO-Rolloff		ı	1				ı		1	1			
محمد المحمحهان مستحد مستحدات المستحدات والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع	sposal Method = D081-Li	andfill; D082-im; TR-Truck;	Landfarm; T	04-Trea	atment VT-Va	cuum '							
	•-	SCA	LE MASTE	:K									

DISTRIBUTION OF COPIES
WHITE — Office
CANARY — Generator
PINK — EPA

ESOI C/D 56-1650-3P Form 101





# COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE



One Winter Street

Boston, Massachusetts 02108

ease print or type. (Form designed for use on elite (12-pitch) typewriter.) 1. Generator US EPA ID No. Manifest 2. Page 1 Information in the shaded areas UNIFORM HAZARDOUS MP 15 11 17 19 13 15 15 15 12 13 10 10 10 18 9 is not required by Federal law. WASTE MANIFEST A. State Manifest Document Number 3. Generator's Name and Mailing Address H375033 BEATRICE COMPANY C/O RETEC B. State Gen. IDBEATRICE COMPANY 9 POND LANE, CONCORD, MA 01742 4. Generator's Phone (508 ) 371-1422 48 SALEM ST., WOBURN, MA 5. Transporter 1 Company Name US EPA ID Number TANKLIN ENVIRONMENTAL MIA 10 10 18 14 18 11 14 11 D. Transporter's Phone 508 384-6151 US EPA ID Number 7. Transporter 2 Company Name E. State Trans. ID DHD106BAVBA09 INC 7 RUCKING 9. Designated Facility Name and Site Address US EPA ID Number ENVIROSAFE SERVICES OF OHIO F. Transporter's Phone ( Not Required: 376 OTTER CREEK RD., P.O. ROX 16751 G. State Facility's ID H. Facility's Phone 419 255-5100° <u>Ю М Ю Ю И Б Р И В Г Ю 16 I</u> OREGON. OHIO 43615-7571 Waste No. 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Total Unit Wt/Vol Type Quantity *HAZARDOUS WASTE SOLID, N.O.S., 0 0 8 9, MA3077, PG III (MARIME POLLUTAMT), RO(CHLORDANE, DOOM, DO20), (ERS#31) 000**9**,0020) 2011000115 Ε N R J. Additional Descriptions for Materials Listed Above finefude physical state and hazard code.) K. Handling ( Wastes Listed Above HAZARDOUS CONTAMINATED SOIL 15698-001 15. Special Handling Instructions and Additional information **EMERGENCY CONTACT:** IMFOIRAC 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurproper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically oracticable publices the present and future threat to human health and the environand that I have selected the practicable method of treatment, storage, or disposal currently available to me which m ment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management Printed/Typed Name, Day Year Month 1 Acknowledgement of Receipt of Materials Year Month Day Date Acknowledgement of Receipt of Materials 18. Transporter Day Year Printed/Typed Name Signature 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manitest except as noted in Item 19. Date Printed/Typed Name Sighature

:E<Y90

form Approved OMB No. 2050-0039, Evalues 9-30-94

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

FACILITY MAILS TO GENERATOR

A HERBURE COFT

ACILITY MAILS TO GENERATOR

The Stronger Bush

merchancy of our, investigation

C/egon, Ohio 43616-7571

2 2_

### CERTIFICATE OF DISPOSAL

anifest Document No		000 8%	_	
ART B — Wasie Dispos	al Information			
Product Code Number	Disposal Date Mo. Day Year	Disposal Method	Container No. Type	Weight
15698001	10/19/91	28/4 - 1 1 - 1	1 72	23.347
	1 1			. •
sposal Method = D081-La		04-Treatment anker; VT-Vacuum Tanker; RO-Rolloff		

DISTRIBUTION OF COPIES
WHITE — Office
CANARY — Generator
PINK — EPA

ESOI C/D 56-1650-3P Form 101



ons



### COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF HAZARDOUS WASTE**

One Winter Street Boston, Massachusetts 02108

ase print or type. (Form designed for use on elite (12	2-pitch) typewriter.)						
UNIFORM HAZARDOUS	1. Generator US EPA	. Docu	anifest ment No.	2. Pag	- 1	n in the shade	
WASTE MANIFEST	M P 5 1 7 9	3 5 5 5 5 2 3	DBB	of	1 is not requi	red by Federa	l law.
3. Generator's Name and Mailing Address	,				ite Manifest Docum		\$1.5
BEATRICE COMPANY C/O RET	EC			<u>*</u>	H37503		
9 POND LANE, CONCORD, MA	01742			B. Sta	te Gen. ID BEAT	RICE CO	MPANY
4. Generator's Phone (508) 371-14	22			248	SALEM ST	WOBURN	- MA
5. Transporter 1 Company Name	6.	US EPA ID Number			te Trans. ID	912	45
FRANKLIN ENVIRONMENTAL SER	V., INC. M	A  D  0  8  4  9  1  4	11315	91	4101		
7. Transporter 2 Company Name	8.	US EPA ID Number	<i>A</i> -	D. Tra	insporter's ^p hone (	508 3	84-6151
WILLS TRUCKING 1	re b	40068913	709		te Trans. ID		
9 Designated Facility Name and Site Address	10.	US EPA ID Number				<u>                                     </u>	
ENVIROSAFE SERVICES OF OHI				ķ	insporter's Phone (		
S76 OTTER CREEK RD., P.O.				<b>8</b>	ate Facility's ID	Not Re	<del></del> :
GREGON, OHIO 43616-7571	0	<u>#10101415121413</u>		-		!	T
11. US DOT Description (Including Proper Shippi	ng Name Hazard Clare	and ID Numberi	12. Cont	ainers	13. Total	14. Unit	l. Waste No.
11. 05 DOT Description (including Proper Snipp)	ny ivaine, Hazaiu Class	, and its itamber)	No.	Type	Quantity	Wt/Vol	14
a. HAZARDOUS WASTE SOLID, N	.0.S.,						78 - 10 S
		] .	}	1	0 0 8		
9, NA3077, PG III (MARIN RO(CHLORDANE, DOO®, DO20)	, (ERG//31)	, 	401	בנם	00015	Υ	0.020
b.				1			
			1	] .			1,054
						<u> </u>	
c.							
	•			] ,			
)		,				<b></b>	3421 13
d.			1				14th 44
			i.	-		1	
				<u> </u>		<u></u>	
J. Additional Descriptions for Materials Listed Al	tovs finciade physical s	tate and hazard code.)		K. He	endling Codes in V	Vestes Listed	Above
HAZARDOUS CONTAMINATED SO	i c.			<b>8</b> e.	_ // //	. c.	
jaman dari Marara M.M. I.							NA
		•	(	1.	) VIIIM		
b.	I d.				W W	110. 1	
15. Special Handling Instructions and Additional	токоппивон	<u>~ .</u>			/ )		<i>a</i> . O
The Toomhou only and	040 000 ***	~)/(	447		1 /	42	411
EMERGENCY CONTACT: INFOT  16. GENERATOR'S CERTIFICATION: I hereby declare that	the contents of this consid	nment are fully and accurately desc	ribed above t			13/ DC	\\\'
proper shipping name and are classified, packed, mar	ked, and labeled, and are in	all respects in proper condition for	transport by I	nighway	_		
according to applicable international and national gov	vernment regulations.						
If I am a large quantity generator, I certify that I have and that I have selected the practicable method of tro							
ment; OR, if I am a small quantity generator, I have m	ade a good faith effort to mi	ininuze my waste generation and se	elect the best	waste ma	inagement method to	or eldelieve ar re	me and that i
can afford.				A			Date
Printed/Typed Narpe	101	Signme	' : //	/		Month	Day Year
KAN LACY CAM I Heat.	ten Deltre	and Ma	L		aunis augustalaidh an io salair is Calladeis addisean i	10	1794
17. Transporter 1 Acknowledgement of Rec	eipt of Materials					1	Date
Printed/Typed Name		Signature /	0		1 1	Month	Day Year
DONALD A NELS		1 0000	alel	1/	reka	10	XVZM
18. Transporter 2 Acknowledgement of Rec	eipt of Materials						Date Year
Printed/Typed Name		Signature				Month	Day Year
19. Discrepancy Indication Space							
					2 0		
				X	1/1		
20. Facility Owner or Operator: Certification of	receipt of hazardoys ma	terials covered by this manife	st except a	s noted)	n/t/em 1/9.		
	1-1-	/_A		1/	//-/	L	Date
Printed/Typed Name	1 1/1	Signature	, \	11	1/	Month	1 By GYER
LEKI		F   \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7	$\sim$	X	VU	111

Form Approved OMB No. 2050-0039, Expires 9:30:94
EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

USEPA ID OHD 045243706

ESOI/Envirosafe Services of Ohio, Inc.
Associated Chemical and Environmental Services, Inc.
876 Ottar Creek Rd. B.O. Boy 107571

876 Otter Creek Rd., P.O. Box 167571

nviromental Services, Inc.	Ohio EPA 03-48-0092
ox 167571	
CERTIFICATE OF DISDOCAL	

enerator Name	BEATRICE 00088				<i>MP6/793555</i> 2 _Generator USEPA ID# _				
inifest Document No					.Generator C	JSEPA IU#			
ART B — Waste Dispos	al Information						•		
Product Code Number	Disposal D Mo. Day Ye		Disposal Method				Container No. Type		Weight
15698 001 1	10,19	94 P8	/				/	TR	21,44
			<u></u>			L			
	1 1			1		1			

I certify receipt and disposal of the above identified wastes at this facility. I certify that the above described wastes were disposed according to all applicable state & federal permits and requirements imposed by the generator.

SCALE MASTER

DISTRIBUTION OF COPIES WHITE — Office CANARY — Generator PINK — EPA

ESOI C/D 56-1650-3P Form 101





### COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE

One Winter Street

Boston, Massachusetts 02108 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 1. Generator US EPA ID No. 2. Page 1 Information in the shaded areas **UNIFORM HAZARDOUS** is not required by Federal law. WASTE MANIFEST A. State Manifest Document Number 3. Generator's Name and Mailing Address H375038 BEATRICE COMPANY C/O RETEC 9 POND LANE, CONCORD, 14A 01742 4 Generator's Phone (508) 371-1422 B. State Gen ID BEATRICE COMPANY 48 SALEM ST. WOBURN MA 4. Generator's Phone (508) C.State Trans ID US EPA ID Number 5. Transporter 1 Company Name 11805101 PA EDANKI IN ENVIRONMENTAL SERV D. Transporter's Phone 608 1384-6151 7. Transporter 2 Company Name US EPA ID Number E. State Trans. ID ? TENCHING WILLS DP 666 PV BAPA 9. Designated Facility Name and Site Address US EPA ID Number ENVIROSAFE SERVICES OF OHIO F. Transporter's Phone i Not Required 875 OTTER CREEK RD., P.O. BOX 16751 G. State Facility's ID H. Facility's Phone (419 255-5100 OREGON. 0HIO 43616-7571 10 iH iD 10 14 15 12 14 13 17 10 16 12. Containers Unit Waste No. 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Total Type Quantity a HAZARDOUS WASTE SOLID, N.O.S., 0.08 NA3077, PG III (MARINE POLLUTANT), (CHLORDÁNE, DOOR, DO20) 001 DIT 60 1015 b. 0 đ. K. Handling Co es for Wastes Listed Above J. Additional Descriptions for Materials Listed Above (include physical state and hazard code.) HAZARDOUS CONTAMINATED SOIL 15698-001 15, Special Handling Instructions and Additional Information **EMERGENCY CONTACT:** INFOTRAC 800-535-5053 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Month Day Year Printed/Typed Name Date 17. Transporter 1 Acknowledgement of Receipt of Materials Signature Month Yea Printed/Typed Name 18. Transporter 2 Acknowledgement of Receipt of Materials Day Year Signature Month Printed/Typed Name 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Date Printed/Typed Name

Form Approved OMB No. 2050 0039. Expires 9:30:94
EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

ESOI/Envirosafe Services of Ohio, Inc. Associated Chemical and Environmental Services, Inc. 876 Otter Creek Rd., P.O. Box 167571

CERTIFICATE OF DISPOSAL

Oregon, Ohio 43616-7571 MP6/79355523 PART A — Generator Information _Generator USEPA ID# Generator Name 000 Manifest Document No. PART B — Waste Disposal Information Disposal Method Container Disposal Date **Product Code** Weight No. Type Number Mo. Day Year 00 Disposal Method = D081-Landfill; D082-Landfarm; T04-Treatment Container Types = DR-Drum; TR-Truck; CT-Cargo Tanker; VT-Vacuum Tanker; RO-Rolloff I certify receipt and disposal of the above identified wastes at this facility. I certify that the above described wastes were disposed according to all applicable state & federal permits and requirements imposed by the generator. DATE SIGNATURE.

SCALE MASTER

DISTRIBUTION OF COPIES WHITE - Office CANARY — Generator

TITLE _

PINK — EPA





## COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE

One Winter Street

Boston, Massachusetts 02108

375039

FACILIT FIAILS IN BENEKAINK

lea	se print or type. (Form designed for use on elite (12					1.4		1 2025				
T	UNIFORM HAZARDOUS	1. Generator US EPA ID No	Ma 	nifest pent No	2. Page 1	Information is not require		i				
		M ₁ P ₁ 6 ₁ 1 ₁ 7 ₁ 9 ₁ 3 ₁ 5	122200	DBP	of 1							
	3. Generator's Name and Mailing Address BEATRICE COMPANY C/O RET	3. Generator's Name and Mailing Address						A. State Manifest Document Number				
	9 POND LANE, CONCORD, MA		B. State G	en. ID BEATE	ICE CO	MPANY						
	4. Generator's Phone (508) 371-1422					EM ST.	<b>WOBURN</b>	. MA				
Ì	5. Transporter 1 Company Name	6.	US EPA ID Number		C.State T	ans. ID	707	7.4				
١	FRANKLIN ENVIRONMENTAL SER	V., INC. MIAIL	)	11316				<i>Y 11</i> 7				
	7. Transporter 2 Company Name	8. 1	US EPA ID Number			orter's Phone (F rans. ID	108 1 3	84 <b>-</b> 6151				
			US EPA ID Number									
į	9. Designated Facility Name and Site Address ENVIROSAFE SERVICES OF OHI	10.	O3 EFA IO NUMBER		F. Transp	orter's Phone (	·.)					
	976 OTTER CREEK RD., P.O.				G. State F	acility's ID	Not Re	quired				
	OREGOM, OHIO 43616-7571	71 HLC	1101415121413	71015	H. Facility	/'s Phone (4 1 C		1				
		ing Name Hazard Class and	ID Numberl	12. Cont	ainers	13. Total	14. Unit	Vaste No.				
	11. US DOT Description (Including Proper Shipp)	ny ivanie, nazaru Ciass, and i		No.	Туре	Quantity	Wt∕Vol					
	a HAZARDOUS WASTE SOLID, N	.0.S.,										
	9, NA3077, PG III (MARIN RQ(CHLORDANE, DOO <b>8</b> ,DO20)	E POLLUTANT),		001	חודות	0015	V	008				
	RQ(CHLORUANE, DOOB, DOZO)	, (ER6531)		791	17112			V V 1 V				
G E	b.							l saje				
N												
N E R	C											
Ä												
0					╀┈╀┈							
R	d.											
						1 1 1 1						
	J. Additional Descriptions for Materials Listed A	bove (include physical state a	nd hazard code.)	Record Common		ing Codes for W		Above				
	HAZARDOUS CONTAMINATED SO	IL			150	LF	c.	r F				
	<u> 15698-001</u>				70	- 1		to Come a serie and the series				
			•		$ \mathcal{D}$	$\mathcal{L}_{\mathbf{k}}$	;   d.	£				
	b. 15.*Special Handling Instructions and Additions	d.					A COMPANY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P					
	15.15 pecial halloling instructions and Additions					7	~ 1	a				
	EMERGENCY CONTACT: INFOI	RAC 800-535-50	53			12012	<u> 1</u>	217				
	16. GENERATOR'S CERTIFICATION: I hereby declare the proper shipping name and are classified, packed, may	of this consignment	are fully and accurately des	cribed above transport by	by highway							
	according to applicable international and national 90	iverninent regulations.										
	If I am a large quantity generator, I certify that I have and that I have selected the practicable method of t	a program in place to reduce the v	volume and toxicity of waste	generated to	the degree I ha present and fo	ave determined to iture threat to hum	he economical nan health and	the environ				
	and that I have selected the practicable method of t ment; OR, if I am a small quantity generator, I have r	nade a good faith effort to minimiz	e my waste generation and s	elect the bes	t makre maneč	ement method the	n eldslieve si tr	o me and that !				
	can attord.	mpanina minintera sono que un ser em esta se comitan establica de la companio de la companio de la companio de	A)	/	/		!	Date				
	Printed/Typed Name	( R. 1)	Signatura	1			Mont	n Day Year				
Ļ	17 Transporter 1 Acknowledgement of Re	noise of Materials	me for	2				Date				
R		cerpt of Waterials	significal	D	1		Mont	h Doy gear				
N S P	Thild ROVEST		July _	1100	υ <del>ν</del>		114					
	18. Transporter 2 Acknowledgement of Re	ceipt of Materials					Mont	Date h Day Year				
F	Printed/Typed Name		Signature				1 1					
F												
F												
1												
		receipt of hazardous materia	Is covered by this manife	est except	as noted in I	em 19.						
1	1			······································		//		Date				
	Printed)Type Name	<i>f</i> .	Signature		11		Mont	th Day Year				

Form Approved OMB No. 2050-0039 Expires 9-30-94

ESOI/Envirosafe Services of Ohio, Inc.	
Associated Chemical and Environmental Services,	Inc.
876 Otter Creek Rd., P.O. Box 167571	
Oregon, Ohio 43616-7571	CF

CERTIFICATE OF DISPOSAL

	<u> </u>	00086	MP61793 Generator USEPA ID#	
anifest Document No		00000	-	
ART B — Waste Dispos	al Information	e e e e e e e e e e e e e e e e e e e		
Product Code Number	Disposal Date Mo. Day Year	Disposal Method	Container No. Type	Weight
15 698 001	10,18,94	D81/11111	1 TR	21.21
	i l			
-				
	andfill; D082-Landfarm; T0 n; TR-Truck; CT-Cargo Ta	nker; VT-Vacuum Tanker; RO-Rolloff	described wastes were	disposed accordin

DISTRIBUTION OF COPIES WHITE — Office CANARY — Generator PINK -- EPA





#### COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF HAZARDOUS WASTE**

One Winter Street

Boston, Massachusetts 02108

ase print or type. (Form designed for use on elite (12-pitch) typewin			0.0	1	:- ab - ab - d - d
I UNIFORMUNAZANDOOO I	. D	Vanifest	2. Page	1	in the shaded areas
WASTE MANIFEST M P 6 1	7 19 13 15 15 15 12 13 2 3	085 -	of 1		ed by Federal law.
3. Generator's Name and Mailing Address			A. State	Manifest Docum	ツェニアスをしかがく アンフィス・デンド としょうあんけい がいしょう ストリスを 勝っ
BEATRICE COMPANY C/O RETEC			MA	H37503	
9 POND LANE, CONCORD, MA 01742			B. State	Gen. IDBEATR	ICE COMPANY
4. Generator's Phone (508 ) 371-1422		2	48 SA	LEM ST.	WOBURN, MA
5. Transporter 1 Company Name	6. US EPA ID Number			Juans 10	2000年在1970年中的第二
	M  A  D  O  8  4  8  1  4		130	1978 - K	<b>//</b>
FRANKLIN ENVIRONMENTAL SERV., INC.				1 / O / /	08 384-6151
7. Transporter 2 Company Name	8. US EPA ID Number			Trans. ID	00 1304-0131
			1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and the second and the second	
9. Designated Facility Name and Site Address	10. US EPA ID Number	•	· · · · · ·		
ENVIROSAFE SERVICES OF OHIO				sporter's Phone (	No. Danisod
876 OTTER CREEK RD., P.O. BOX 16751			p.	e Facility's ID	Not Required
OREGON, OHIO 43616-7571	0 11 10 10 14 15 12 14 13		- 1		1 216.55 V . B.
	d Claus and ID Missahari	12. Cont	ainers	13. Total	14. I. Vaste No.
11. US DOT Description (Including Proper Shipping Name, Hazar	ra Class, and ID Number	No.	Type	Quantity	Wt/Vol
- HAZADDOUG MACTE COLID NO C					
a-HAZARDOUS WASTE SOLID, N.O.S.,	ent T V	1			8 0 0 n
9, NA3077, PG III (MARINE POLLUTA RO(CHLORDANE, DOOS, DO20), (ERG#31	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	201	lo it k	710015T	Y 0020
27)		4-1	<del> </del>		4 4 4 4
j.b.					
<b>,</b>		1	1.1		
			1		3. 35688. 3. 3. 455
c.		1			
			1 1		
d.					
			j	ļ	
J. Additional Descriptions for Materials Listed Above (include pt	nysical state and hazard code.)	•	K. Han	dling Codes for W	astes Listed Above
HAZARDOUS CONTAMINATED SOIL			1,50	CLF	c.
a. 15698-001 c.					
			D	8 B	
d.			b.	19	d.
15. Special Handling Instructions and Additional Information					
			<i></i>	, 2	21200
EMERGENCY CONTACT: INFOTRAC 800	-535-5053	4	336	50T	21.78T
to Course at One Control Cations I have be declare that the contents of th	is consignment are fully and accurately de	escribed above I	Dy Dighway		
proper shipping name and are classified, packed, marked, and labeled, according to applicable international and national government regulation	and are in all respects in proper condition is	or transport by i	ilgiteray		
	to the continue and sociality of wast	e deverated to 1	the degree l	have determined to b	e economically practicable
If I am a large quantity generator, I certify that I have a program in place and that I have selected the practicable method of treatment, storage, or	or disposal currently available to me which	minimizes the	present and	future threat to huma	an health and the environ-
ment; OR, if I am a small quantity generator, I have made a good faith e	ffort to minimize my waste generation and	select the best	waste man	agement method tha	( 15 available to the and that t
can afford.					Date
Printed/Typed Name / /	Stonefury /				Month Day Year
KAN LACUISMAN Arat ten Bustie	) luxtra	1			101754
17. Transporter 1 Acknowledgement of Receipt of Material				_/	Date /
Pripaged Typer Name	Signature 1	Nia.	\	Minsi	Month Pay (Tear)
JEPNEN VIIISI	- ICX	nu	<u>ر.</u>	WACH_	101174
18. Transporter 2 Acknowledgement of Receipt of Material	s			</td <td>Date *</td>	Date *
Printed/Typed Name	Signature			Υ	Month Day Year
·					
19. Discrepancy Indication Space					:
		:			•
20. Facility Owner or Operator: Certification of receipt of hazar	doue materials covered by this meni	fact aveant a	s noted in	Item 19	
L ZU. Facility Owner or Operator: Certification of receipt of hazar	uous materiais covered by this mani	s. axceht a	111		Date
	1 0/				Month Day Year
Printed/Typed Name	Signature				Indian Day 1997
1	1				

Form Approved OMB No. 2050-0039. Expires 9-30-94
EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

Oregon, Ohio 43616-7571

USEPA ID 10118-845243706 Ohio EPA 03-48-0092

#### **CERTIFICATE OF DISPOSAL**

eneratór Name		000 85	_Generator USEPA ID# _	
ART B — Wasie Dispos	al Information			
Product Code Number	Disposal Date Mo. Day Year	Disposal Method	Container No. Type	Weight
15698001	10 18 94	2811 111	1 TR	21.78
ertify receipt and disposal	n; TR-Truck; CT-Cargo T of the above identified w ermits and requirements	anker; VT-Vacuum Tanker; RO-Rolloff astes at this facility. I certify that the above imposed by the generator.	e described wastes were o	•
	S	CALE MASTER		
STRIBUTION OF COPIES WHITE — Office CANARY — Generator		#/ #		





#### CONNICION YEAR I'M OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE

One Winter Street

Boston, Massachusetts 02108

ase print or type. (Form designed for use on ente (12-pitch) typewrite						
UNIFORM HAZARDOUS 1. Generator US WASTE MANIFEST M   P   5   1   7	S EPA ID No. M. 7   9   3   5   5   5   5   2   3   5   5   5   5   5   5   5   6   6   6	anifest iment No	2. Page 1 of 1		in the shade ed by Federa	
3. Generator's Name and Mailing Address BEATRICE COMPANY C/O RETEC				lanifest Docum		
9 POND LANE, CONCORD, MA 01742 4. Generator's Phone (508) 371-1422			B. State G	en IDBEATE	RICE CO	MPANY
5. Transporter 1 Company Name	6. US EPA ID Number		C.State T	EM ST.,	WUBUKN	, KMA
FRANKLIN ENVIRONMENTAL SERV., INC.	MIAIDIDIR14181114	111315				
7. Transporter 2 Company Name	8. US EPA IO Number	1 1 1	D. Transport	orter's Phone Crans: ID	08 ∵3	84-6151
9. Designated Facility Name and Site Address ENV I ROSAFE SERVICES OF OHIO	10. US EPA ID Number		h	5000	31/Y	10 14
876 OTTER CREEK RO., P.O. BOX 16761			; <del></del>	orter's Phone ( acility's ID	Not Re	auired
OREGON, OHIO 43615-7571	014101011 32413	71016				
11. US DOT Description (Including Proper Shipping Name, Hazard	Class, and ID Number,	12. Conta	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
» HAZARDOUS WASTE SOLID, N.O.S., 9, NA3077, PG III (MARINE POLLUTA! RQ(CHLORDANE, DOCS, DO20), (ERG#31)	(T),	201/1	מידור)	12716T	- [	008
b. CK			3119		[ :	Party of Carety a
		i	1 1	111		
c.						
d.,	· ·					
					/	
J. Additional Descriptions for Materials Listed Above (include phys. HAZARDOUS CONTAMINATED SOIL	sical state and hazard C/A		K. Handlin	g Codes for Wa	stes Listed /	Above
a. 15698=001 c.					c.	
b. d.			ь <b>Д</b>		1:1)	1861
15. Special Handling Instructions and Additional Information	C -	,	The Section of		_	
	535-5053	151			4690	$\Sigma V$
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this proper shipping name and are classified, packed, marked, and labeled, and according to applicable international and national government regulations	l are in all respects in proper series on for tr		ghway			
If I am a large quantity generator, I certify that I have a program in place to	reduce the volume and toxic: waste ge					
and that I have selected the practicable method of treatment, storage, or or ment; OR, if I am a small quantity generator, I have made a good faith efforcan afford.						
Printe#/Typed Name //	Signature /	$\mathcal{H}$	<i></i>	,	Month	Date Day_Year
17. Transporter 1 Acknowledgement of Receipt of Materials	partie (1)	11/		==	PP	Date
Printed/Typed Name	Signatur	· A.		······································	Month	Day Year
18. Transporter 2 Acknowledgement of Receipt of Materials	V VY	400	<del>V</del>			Date
Printed/Typed Name	Signature				Month	Day Year
19. Discrepancy Indication Space						
			$\Delta$	Λ	L-17	
20. Facility Owner or Operator: Certification of receipt of hazardo	us materials covered by transanife t	except as r	noted in Item	(19.)		Date
Printed/Typed Name	Signature	< 11	<b>//</b>		Month	Doy Cychr
		\ <u> </u>	<u> </u>	<u> </u>	た(リノ)	UNIC

PINK - EPA

ч3

#### CERTIFICATE OF DISPOSAL

nifest Document No	00054		_	
RT B — Waste Dispo	sal Information			
Product Code Number	Disposal Date Mo. Day Year	Disposal Method	Container No. Type	Weight
15698-001	10/18/94	CISIII LI LI	1 7/2	23.457
ontainer Types = DR-Dru ertify receipt and dispose	al of the above identified v permits and requirements	Tanker; VT-Vacuum Tanker; RO-Rolloff vastes at this facility. I certify that the above	described wastes were	
	, ,			and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
rle	()	SCALE MASTER	•	
TLESTRIBUTION OF COPIES WHITE Office	()	SCALE MASTER	·	





## COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE

One Winter Street

Boston, Massachusetts 02108

eas	se print or type. (Form designed for use on elite (12							- 1 Informatio	= in the shade	1 05036
П	UNIFORM HAZARDOUS	1. Generator US			Mani Pocume		2. Pag	1	n in the shaded	
П	WASTE MANIFEST	M P 6 1 7	<u> </u>	5  5  2  3	000	X 5	of	1	ired by Federal	
۱ <del>۱</del>	3. Generator's Name and Mailing Address							te Manifest Docu		
	BEATRICE COMPANY C/O RET	EC						* H37503		
	9 POND LANE, CONCORD, MA						B. Sta	te Gen. ID BEAT	RICE CO	MPANY .
	4. Generator's Phone ( 508 ) 371-14	22					248	SALEM ST.	WOBURN	MA
<b>'</b>	5. Transporter 1 Company Name		6.	US EPA ID N	lumber		C Stat	e Trans ID		
-	FRANKLIN ENVIRONMENTAL SER	V TNC	Int a Di	កោទ់ វេទ	Ri 1 i Air	11316	H & 7	543101	MILIT	行為發熱
H		V . , 1190 .	8.	US EPA ID N		11.21.81	D Tra	nsporter's Phone	1508 123	84-6151
П	7. Transporter 2 Company Name		0. 	US EFAID IN	1 1 1		E. Sta	te Trans. ID		70.255.00
' ↓			لسلسيك					1 1 1	121 129	
	9. Designated Facility Name and Site Address	0	10.	US EPA ID N	lumber		120.00	nsporter's Phone		1 1/80/2008
	ENVIROSAFE SERVICES OF OHI							te Facility's ID	<u> </u>	quired
	876 OTTER CREEK RD., P.O.	50% To/51	10						<del></del>	
	OREGON, OHIO 43516-7571		<u> 10 1810 -</u>	17141512			- +	cility's Phone (4.1		2100
	Chioni	- Alomo Hozardi	Class and ID	Mumberl	P. Carrier	12. Conta	ainers	13. Total	14. Unit	Waste No.
	11. US DOT Description (Including Proper Shipping	ng Name, Hazara (	Class, and ID	(Number)	1	No.	Туре	Quantity	Wt/Vol	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
	a. HAZARDOUS WASTE SOLID, N	2.0								
	A. OLIUC FICHM COUGHNAMES OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAROLAN OF THE CAR	.U.J., E DOLLIENAS	at V		į.				<u></u>	0 0 0 8
, 1	9, NA3077, PG III (MARIN RO(CHLORDANE, DOZZ), DOZO)	E FULLUTA!   FDD:#21	:1 <i>]</i> ,		J.	101	דום	C) V(X/) IS	Ty	born
ļ	RU(CHLORDANE, LLOY, DUZO)	, (LNOPUL)	<u></u>			/	***		1	
G	ь.				i					1344
E							1 . 1		į	1 01343
N E R								<del>                                     </del>	<del></del>	300000000000000000000000000000000000000
Ř	c.									
Α			•		l		1 . 1		`	
T O						111	lacksquare		<del>-</del>	1 5 5 7 5 5 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6
P.	d.								1	
					Ĭ		<u>.</u>		j	
										1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	J. Additional Descriptions for Materials Listed Al	bove (include phys	sical state an	d hazard code.	1		K. Ha	indling Codes for	Wastes Listed	Above
	HAZARDOUSSCONTAMINATED SO	IL					****S	GLF		
	a 15698=001	c.			- 1978 - 1978	of a region of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the	<b>d.</b>		Al solves Sec	1000
		1	74				- 43	D8 <b>O</b>		
1	<b>b</b>	a.	with the	Alianes I		# 1000 x	<b>b</b>		d. ***	· Sid Kineda
	15. Special Handling Instructions and Additional	Information								
•	-							_		
	ENCOCHOY CONTACT: INCOT	DAC 000 F	יסר רמר	2			4//	0201	2:	3.01T
	EMERGENCY CONTACT: INFOT  16. GENERATOR'S CERTIFICATION: I hereby declare that	the contents of this	535-505	re fully and accur	rately describ	bed above t	<del>У</del>			
	proper shipping name and are classified, packed, mar	rked, and labeled, and	d are in all respe	ects in proper cor	ndition for tra	insport by I	nighway			
	according to applicable international and national government	vernment regulations	i.							v practicable
	If I am a large quantity generator, I certify that I have and that I have selected the practicable method of tro	a program in place to	reduce the vol	ume and toxicity	of waste ger ne which mini	nerated to t imizes the r	he degree present ar	e I have determined to nd future threat to hi	man health and t	the environ-
	and that I have selected the practicable method of tro ment; OR, if I am a small quantity generator, I have m	eatment, storage, or c lade a good faith effo	rt to minimize n	ny waste genera	ition and sele	ct the best	waste ma	anagement method t	hat is available to	me and that I
)	can afford.			/	3/	1	A	*		Date
	A Printed/Typed Name   IA		- (	Signature					Month	Day Year
	A I I A	Pa Da	4 - 1	1-1		. 1			1 1	1,00
Ļ	17. Transporter Acknowledgement of Rec	eint of Materials		-	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	7		1		/Date /
Ř	// Printed/Typed Name	7 / MIVShe	2	Signature		T	17.	100	Mont	Day Year
Ê	Mon I Do under attroopher	Detto	17 /~		I'M	人と	1 W		XO	11 7 A H
Æ,	18. Transporter 2 Acknowledgement of Rec	eint of Materials								Date
Ŕ	18. Transporter 2 Acknowledgement of Rec	OIPE OF INGLESION		Signature					Monti	n Day Year
X-ER	Printed/Typed Name		1	Jigilatare					1 1	
R										<del></del>
F	19. Discrepancy Indication Space									
A										
ç			-							
L	1 20 English Owner or Operator: Cartification of	receipt of hazardo	ous materials	covered by th	is manifest	except a	s noted	in Item 19.	Γ	
ı						-,				Date
IJ	Printed/Typed/Name/	,		Signatore		//			Monti	h Day Year
۱Y	75.6	1-1		115		1	/, .	•	. Ya	VX PV

Form Approved OMB No. 2050-0039, Expires 9-30-94

36 COPY>3: FACILITY MAILS TO GENERATOR

#### CERTIFICATE OF DISPOSAL PART A — Generator Information BEATRICE Generator USEPA ID# Generator Name Manifest Document No. PART B — Waste Disposal Information **Product Code** Disposal Date Disposal Method Container Weight No. Type Number Mo. Day Year 23,01

Disposal Method = D081-Landfill; D082-Landfarm; T04-Treatment

Container Types = DR-Drum; TR-Truck; CT-Cargo Tanker; VT-Vacuum Tanker; RO-Rolloff

I certify receipt and disposal of the above identified wastes at this facility. I certify that the above described wastes were disposed according to all applicable state & federal permits and requirements imposed by the generator.

10.18.94 DATE

TITLE _

SCALE MASTER

DISTRIBUTION OF COPIES WHITE - Office CANARY — Generator PINK - EPA

E<Ado





#### DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE

One Winter Street

Boston, Massachusetts 02108 lease print or type. (Form designed for use on elite (12-pitch) typewriter.) Information in the shaded areas 2. Page 1 1. Generator US EPA ID No. **UNIFORM HAZARDOUS** is not required by Federal law. MIP161117191315151512136 WASTE MANIFEST A. State Manifest Document Number 3. Generator's Name and Mailing Address MA H375040 BEATRICE COMPANY C/O RETEC B. State Gen. ID BEATRICE COMPANY 9 POND LANE, CONCORD, MA 01742 4 Generator's Phone (508) 371-1422 48 SALEM ST. WOBURN, MA 4. Generator's Phone (508) C.State Trans. ID US EPA ID Number 6. 5. Transporter 1 Company Name MAGBORILLI FRANKLIN ENVIRONMENTAL SERV., INC. MIAIDIOLSI4181114111316 D. Transporter's Phone 508 1 384-6151 US EPA ID Number 7. Transporter 2 Company Name E. State Trans. ID US EPA ID Number 9. Designated Facility Name and Site Address 10 1. 1. 1. 1. 1. F. Transporter's Phone ( ENVIROSAFE SERVICES OF OHIO G. State Facility's ID Not Required 875 OTTER CREEK RO., P.O. BOX 16751 H. Facility's Phone (119 255-5100 0 19 10 10 14 15 12 14 13 17 10 10 OREGON, OHIO 43616-7571 12. Containers Waste No. Unit Total 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Wt/Vol Quantity **南京山林。**和 Type a. HAZARDOUS WASTE SOLID, N.O.S., 0 0 8 9. NA3077, PG III (MARINE POLLUTANT), RO(CHLORDANE, DOOB, DOZO), (ERG//31) 9 E c. r Wastes Listed Above Additional Descriptions for Materials Listed Above (include physical state and hazard code.) HAZARDOUS CONTAMINATED SOIL 15698-001 15. Special Handling Instructions and Additional Information INFOTRAC 800-535-5053 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by high according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I Date Dav Month Printed/Typed Name Date 1 Acknowledgement of Receipt of Materials Day Month Date Acknowledgement of Receipt of Materials Month Dav Printed/Typed Name 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except ag Signature Printed/Typed Name

Form Approved OMB No. 2050-0039, Expires 9-30-94

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

ESOI/Envirosafe Services of Ohio, Inc.
Associated Chemical and Environmental Services, Inc.
876 Otter Creek Rd., P.O. Box 167571

Oregon, Ohio 43616-7571

#### **CERTIFICATE OF DISPOSAL**

PART A — Generator II	i i ı	· ·				m01,=0766
Generator Name		Company		Generator U	SEPA ID#	mP6179355
Manifest Document No	<u> 00083</u>					
PART B — Waste Dispo	osal Information					
Product Code Number	Disposal Date Mo. Day Year	· Disposal Me	ethod		ainer Type	Weight
15698.001	10/18/94	01811		!	TR	22.66T
·						
Disposal Method = D081-	Landfill; D082-Landfarm;	T04-Treatment				
•		fanker; VT-Vacuum Tanker;	RO-Rolloff			
I certify receipt and dispos applicable state & federal	al of the above identified v	vastes at this facility. I certify imposed by the generator.				
SIGNATURE	To le	in Pertuen	S DAT	E	0/18	194
TITLE		CALE MASTER				
DISTRIBUTION OF CODIES			<i>e</i> :			

DISTRIBUTION OF COPIES WHITE — Office CANARY — Generator PINK — EPA









## COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE

One Winter Street / Boston, Massachusetts 02108

ase print or type. (Form designed for use on elite (1					T		
UNIFORM HAZARDOUS	1. Generator US EPA	D.,	Manifest cument No.	2. Page 1	1	in the shaded	1
WASTE MANIFEST	M ₁ P ₁ 6 ₁ 1 ₁ 7 ₁ 9	13   5   5   5   2   3 <b>b</b> 8	081	of i		ed by Federal	law.
3. Generator's Name and Mailing Address					anifest Docum 1375043		`
BEATRICE COMPANY C/O RET							ST ANN
9 POND LANE, CONCORD, MA	()1/42				on DBEATR		
4. Generator's Phone (508 ) 371-14		US EPA ID Number		C.State Tr		So and	7.2.2.2.2.2.3.3.3.3.3.3.3.3.3.3.3.3.3.3.
5. Transporter 1 Company Name	6.	1A 1D 10 18 14 18 11 14		000	44 MA		
FRANKLIN ENVIRONMENTAL SER	8.	US EPA ID Number			orter's Phone 5		4-6151
7. Transporter 2 Company Name	8. 	1 1 1 1 1 1 1 1	1 1 1		ans. ID		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
D. D. J. and Smiller Name and Site Address	10.	US EPA ID Number					
9. Designated Facility Name and Site Address ENVIROSAFE SERVICES OF OHI		00 01 14 15 110111001		F. Transpo	orter's Phone (	)	
876 OTTER CREEK PD., P.O.				G. State F	acility's ID	Not Red	uired
OREGON, OHIO 43615-7571	Ю	HD 10 14 15 12 14 13	17 10 16	H. Facility	's Phone <b>41</b> 9	255-5	100
			12. Conta	- 1	13.	14.	1.
11. US DOT Description (Including Proper Ship)	oing Name, Hazard Class	s, and ID Number)	No.	Туре	Total Quantity	Unit Wt/Vol	Waste No.
*HAZARDOUS WASTE SOLID, N	105						e se de la company
O MASO77 PG III (MARIA	E POLLHTAUT)		<u> </u>				0∵0`8*
9, NA3077, PG III (MARIN RO(CHLORDANE, DOO <b>9</b> , DO20)	. (EPG#31)	,	DUY	D IT DK	2015	Υ (	0.3.0
b.	<u></u>						
1							4.4
							美国網際
c.							
				<u> </u>			
d.	•						
							\$2.78.00°
and Analysis a	57	887 - 1. 6 H (86 T)					14 學
J. Additional Descriptions for Materials Listed		state and hazard code.)	-56.435	K. Handlin	Codes for W	astes Listed /	Above
HAZARDOUS CONTAMINATED SC 15698-001	с.			a.		c.	
				MI	$11/\Lambda_{\Lambda}$		<b>A</b>
	d.			Lo. Ll	$I(X_i) I(I_i)$	الله الله	
15. Special Handling Instructions and Addition					7		
		\rightarrow	CIL	<del>_</del>	1 1	1500	
EMERGENCY CONTACT: INFO	FRAC 800-535	-5053	PIK	1	\	1788	()   1
to COMEDATOR'S CERTIFICATION: I bereby declare th	at the contents of this consid	nment are fully and accurately de	scribed above b	'Y	<del></del>		
proper shipping name and are classified, packed, m according to applicable international and national g	arked, and labeled, and are in overnment regulations.	all respects in proper condition to	or transport by n	ignway			
and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	in place to reduc	e the volume and toxicity of wast	e generated to the	he degree I hav	e determined to b	e economically	practicable
and that I have selected the practicable method of t ment; OR, if I am a small quantity generator, I have							
ment; OR, if I am a small quantity generator, I have can afford.	made a good talliferion to fi	minimize my waste generation and	50.001 1.10 5 551				Date
C Driesad Timed Name ( )		Street 1				Month	Day Year
Printed/Typed Name  AN AN WINDOWS A Fee A fee A	Bestica)	Sal Jan	,			120	レフタシ
17. Transporter 1 Acknowledgement of Re	ceipt of Materials	1-1-1-1		<del>-</del>			Date
Printed/Typed Name		Signature		1	•	Month	Day Year
Kanner Ma.			15.	S			
18. Transporter 2 Acknowledgement of Re	ceipt of Materials	Die	1	1 Day		101	"Pathy"
Printed/Typed Name		Signature				Month	Day Year
		·					
19. Discrepancy Indication Space							
			_	<del>\</del>	<del>}</del>		
20. Facility Owner or Operator: Certification o	f receipt of hazardous m	aterials covered by this manif	føst except as	ingted in Ite	m)19.		
	1	$\longrightarrow$	ļ	<del>//-/ -</del>	<del> </del>		Date
Printed/Typed Name	1 1/2 h	Signature		X / [/		Month	175170
			- ' ' '			1/4/	

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

5243706

USEPA ID.

Ohio EPA 03-48-0092

ESOI/Envirosafe Services of Ohio, Inc. Associated Chemical and Environmental Services, Inc.

876 Otter Creek Rd., P.O. Box 167571 Oregon, Ohio 43616-7571

CERTIFICATE OF DISPO	OSA	ΑL
----------------------	-----	----

PART A — Generator Inf	ormation 7	1 m	- 11	1-6	779:	3533723
Generator Name	BEATRI				JSEPA ID#	
Manifest Document No	O	008/	<del></del>			
PART B — Waste Dispos	al Information					
Product Code Number	Disposal Date Mo. Day Year	Disposal Method			tainer Type	Weight
15698 001	10,18,94	28/1 1 1 1		/	TR	22.947
	i					
	<u> </u>					
Disposal Method = D081-La	andfill: D082-Landfarm; T0	04-Treatment				
Container Types = DR-Drur	m; TR-Truck; CT-Cargo Ta	anker; VT-Vacuum Tanker; RO-Rollo	off			
I certify receipt and disposal applicable state & federal p		astes at this facility. I certify that the imposed by the generator.	above descri	bed w	astes were d	isposed according to a
SIGNATURE		Ma Do	DATE			0-18-94
TITLE	1000	- In Carrier				
	S	CALE MASTER				

DISTRIBUTION OF COPIES WHITE — Office CANARY — Generator PINK — EPA



ter (

nal F

memers of the immately with the



#### COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE

One Winter Street Boston, Massachusetts 02108

WASTE MANIFEST  M P 6 1 7 9 3 5 5 5 2 3 Document No.  3. Generator's Name and Mailing Address BEATRICE COMPANY C/O RETEC 9 POND LANE, CONCORD, MA 01742 4. Generator's Phone (508 ) 371–1422 5. Transporter 1 Company Name 6. US EPA ID Number FRANKLIN ENVIRONMENTAL SERV., INC. M A D D B 4 8 1 4 1 4 1 3 6 7. Transporter 2 Company Name 8. US EPA ID Number 9. Designated Facility Name and Site Address ENVIROSAFE SERVICES OF 0410 876 OTTER CREEK RD., P.O. 80X 16751  M P 6 1 7 9 3 5 5 5 2 3 Document No. of 1 is not required by Federal law. A. State Manifest Document Number MA H375041  B. State Gen. IDBEATRICE COMPANY 48 SALEM ST., WOBURN, MA C. State Trans. ID  D. Transporter's Phone 508 384-6151  EXSTATE Trans. ID  9. Designated Facility Name and Site Address F. Transporter's Phone ( ) G. State Facility's ID Not Required	ase print or type. (Form designed for use on elite (1					<del></del>	<del> </del>	<del></del>
WASTE MANIFEST # IP 6 1 7 9 2 15 15 12 13 0 0 13 0 13 15 15 15 15 15 15 15 15 15 15 15 15 15	UNIFORM HAZARDOUS	1	. 0	Manifest ocument No.	2. Page 1			
S. Genetics Sentime and Company Notices 9 POND LANE, CIPPOORD, SIGN 1772 9 POND LANE, CIPPOORD, SIGN 1772 15 Transporter 1 Company Name 26 Camerator Shrow 6578 1 371-1422 16 Transporter 1 Company Name 27 Transporter 2 Company Name 28 US EPA ID Number 29 POND LANE, SIGN 1762 SERV, LIUC. MIA 10 D IB 14 18 11 14 11 3 15 20 POND LANE, SIGN 1762 SERV SIGN 1762 SERV, LIUC. MIA 10 D IB 14 18 11 14 11 3 15 20 POND LANE, SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762 SERV SIGN 1762		M P 16 11 17 19 1	3  5  5  5  2  3 6					
9 POND LANE, CONCORD, NA 1/1/2 4. Generator's Primore (SPR   3/1-14/2) 5. Transporter   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company Name   Company								
A. Generator's Prince (578 ) 3/1-14/2   5. Temporter (5. Company Name				·				AD A RIV
5. Transporter 1 Company Name 6. US EPA ID Number FRANK IN EMY IRONIFENTAL SERV., INC. M. IA ID ID IB A IA IB 11 A IA 13 A IA IA IA IA IA IA IA IA IA IA IA IA I	9 POND LAME, CONCORD, MA	01/42						
PRAIK! IN ENVIRONMENTAL SERV., INC. MAID DISIBLE IS IN IA 13 5 7. Transporter 2 Company Name 8. USERA IN Number 9. Designated Facility Name and Site Address 10. USERA IN Number 11. USERA IN Number 12. Statist Trans. ID 13. Statist Trans. ID 14. Statist Trans. ID 15. Statist Trans. ID 16. Statist Trans. ID 16. Statist Trans. ID 16. Statist Trans. ID 17. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 18. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 19. Statist Trans. ID 1			US EPA ID Numb	er			63.12° A.C. Salar - A.C. Salar - A.C. Salar - A.C. Salar - A.C. Salar - A.C. Salar - A.C. Salar - A.C. Salar - A.C. Sa	ATTACA Sebert Carlos Carlos
7. Transporter 2 Company Name 8. USERA ID Number 9. Designated Facility Name and Sitc Address 10. USERA ID Number 15. STEER Trans. 10. 16. STEER Trans. 10. 17. STEER Trans. 10. 18. STEER Trans. 10. 18. STEER Trans. 10. 18. STEER Trans. 10. 18. STEER Trans. 10. 18. STEER Trans. 10. 18. STEER Trans. 10. 18. STEER Trans. 10. 18. STEER Trans. 10. 18. STEER Trans. 10. 18. STEER Trans. 10. 18. STEER Trans. 10. 18. STEER Trans. 10. 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STEER Transporter's Phone 6108 18. STE		1						
Designated Facility Name and Site Address  IN USERAID Number  F. Transporter's Phone (  C. States Facility s ID  Not Required  O. States Facility s ID  Not Required  O. States Facility s ID  Not Required  O. States Facility s ID  Not Required  O. States Facility s ID  Not Required  O. States Facility s ID  Not Required  O. States Facility s ID  Not Required  O. States Facility s ID  Not Required  O. States Facility s ID  Not Required  O. States Facility s ID  Not Required  O. States Facility s ID  Not Required  O. States Facility s ID  Not Required  O. States Facility s ID  Not Required  O. States Facility s ID  Not Required  O. States Facility s ID  Not Required  O. Type Outstilly  Warse No.  No. Type Outstilly  Warse No.  O. States Facility s ID  No. Type Outstilly  Warse No.  O. States Facility s ID  No. Type Outstilly  Warse No.  O. States Facility s ID  No. Type Outstilly  Warse No.  O. States Facility s ID  No. Type Outstilly  Warse No.  O. States Facility s ID  No. Type Outstilly  Warse No.  O. States Facility s ID  No. Type Outstilly  Warse No.  O. States Facility s ID  No. Type Outstilly  Warse No.  O. States Facility s ID  No. Type Outstilly  Warse No.  O. States Facility s ID  No. Type Outstilly  Warse No.  O. States Facility s ID  No. Type Outstilly  Warse No.  O. States Facility s ID  No. Type Outstilly  Warse No.  O. States Facility sold for Waste Listed Above  II on States Facility sold for Waste Listed Above  II on States Facility sold for Waste Listed Above  II on States Facility sold for Waste Listed Above  II on States Facility sold for Waste Listed Above  II on States Facility sold for Waste Listed Above  II on States Facility sold for Waste Listed Above  II on States Facility sold for Waste Listed Above  II on States Facility sold for Waste Listed Above  II on States Facility sold for Waste Listed Above  II on States Facility sold for Waste Listed Above  II on States Facility sold for Waste Listed Above  II on States Facility sold for Waste Listed Above  II on States Facility sold for Waste					D. Transp	orter's Phone 5	08 538	34-6151
ENVIROSAFE SERVICES OF 0410  S75 0 TIES CREEK R9., P. C. 30X 16751  11. US DOT DESCRIBE OR P. P. C. 30X 16751  11. US DOT DESCRIBEON (Including Proper Shipping Name, Hazard Class, and ID Number)  12. Conservers  13. 14. Weste No.  14. Weste No.  15. Quentry  WWW.  Weste No.  16. Class of The Conservers  17. Additional Descriptions for Meterials Listed Above finclude physical state and hazard code (I)  18. Additional Descriptions for Meterials Listed Above finclude physical state and hazard code (I)  18. Additional Descriptions for Meterials Listed Above finclude physical state and hazard code (I)  18. Additional Descriptions for Meterials Listed Above finclude physical state and hazard code (I)  18. Additional Descriptions for Meterials Listed Above finclude physical state and hazard code (I)  18. Additional Descriptions for Meterials Listed Above finclude physical state and hazard code (I)  18. Additional Descriptions for Meterials Listed Above finclude physical state and hazard code (I)  18. Additional Descriptions for Meterials Listed Above finclude physical state and hazard code (I)  18. Additional Descriptions for Meterials Listed Above finclude physical state and hazard code (I)  18. Additional Descriptions for Meterials Listed Above finclude physical state and hazard code (I)  18. Additional Descriptions for Meterials Listed Above finclude physical state and hazard code (I)  18. Additional Descriptions for Meterials Listed Above finclude physical state and hazard code (I)  18. Additional Descriptions for Meterials Listed Above finclude physical state and hazard code (I)  18. Additional Descriptions for Meterials Listed Above finclude physical state and hazard code (I)  18. Additional Descriptions for Meterials Listed Above finclude physical state and hazard code (I)  18. Additional Description for Meterials Listed Above finclude physical state and hazard code (I)  18. Additional Description for Meterials Listed Above finclude physical state and hazard code (I)  18. Additional Description for Meterials Li	7. Hansporter 2 Company Warre	Ĭ.i.	1 1 1 1 1 1					
PAY ROSAFE SERVICES OF 0.410 95 6 OTHER CREEK PD. 9.0. 90X 16751 0RECOM. OPIO 43516-7571 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and IO Number) 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and IO Number) 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and IO Number) 12. Conservers 13. Unit Facility's Phone 4 19. P.55-5100 14. Waste No. Waste No. Proper Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.	9 Designated Facility Name and Site Address	10.	US EPA ID Numb	er				
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and IO Number)  12. Containers 12. Containers 13. Containers 14. Additional Description (Including Proper Shipping Name, Hazard Class, and IO Number)  14. Additional Descriptions for (Materials Listed Above Include physical state and hazard code.)  15. Additional Descriptions for Materials Listed Above Include physical state and hazard code.  16. C.  17. Additional Descriptions for Materials Listed Above Include physical state and hazard code.  18. Additional Descriptions for Materials Listed Above Include physical state and hazard code.  18. Special Handling Instructions and Additional Information  18. Special Handling Instructions and Additional Information  18. Special Handling Instructions and Additional Information  18. Special Handling Instructions and Additional Information  19. Additional Descriptions for Materials Listed Above Include physical state and hazard code.  18. Special Handling Instructions and Additional Information  19. Additional Descriptions for Materials Listed Above Include physical state and hazard code.  18. Special Handling Instructions and Additional Information  19. Additional Descriptions for Materials Listed Above Include physical state and hazard code.  19. Additional Descriptions for Materials Included physical state and hazard code.  19. Additional Descriptions for Materials Included physical state and hazard code.  19. Additional Descriptions for Materials Included physical state and hazard code.  19. Descriptions for Materials Included physical state and hazard code.  19. Descriptions for Materials Included physical state and hazard code.  19. Discriptions for Materials Included physical state and hazard code.  19. Discriptions for Materials Included physical state and hazard code.  19. Discriptions for Materials Included physical state and hazard code.  19. Discriptions for Materials Included physical state and hazard code.  19. Discriptions for Materials Included physical state and hazard code.  19. Disc		0			Ł		1 1 1	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and IO Number)  12. Containers 13. 14. Total No. Type Quantity Waste No. No. Type Quantity Wit/OI  Waste No. No. Type Quantity Wit/OI  Waste No. No. Type Quantity Wit/OI  Waste No. No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quantity No. Type Quan	876 OTTER CREEK RD., P.O.	BOX 16751			<u> </u>			;
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and IO Number)  a. HAZARDOUS MASTE SOLID, 8.0.S., 9, NA3077, PG III (MARINE POLLUTANT), RU(CHIOSDANE, DOOG, DOZO), (EDB/S1)  b.  c.  d.  d.  3. Additional Descriptions for Materials Listed Above finclude physical state and hazard code.)  4. Additional Descriptions for Materials Listed Above finclude physical state and hazard code.)  5. Additional Descriptions for Materials Listed Above finclude physical state and hazard code.)  6. C.  6. Additional Descriptions for Materials Listed Above finclude physical state and hazard code.)  7. Additional Descriptions for Materials Listed Above finclude physical state and hazard code.  8. S. 1569201  6. Additional Descriptions for Materials Listed Above finclude physical state and hazard code.)  8. S. 1569201  8. S. 1569201  8. S. 1569201  8. S. Special Handling Instructions and Additional Information  FMFRGFNCY CONTACT: INFOTRAC 800–535–5053  8. GEMERATORS CENTRICATION: Inherely declars that the contents of this consignment are villay and accurately described above by cooking propose thipping name and are atsention, parket, market, and labeled and are in all especial contents of this consignment are villay and accurately described above by cooking the first Contents of this consignment are villay and accurately described above by cooking the first contents of this consignment are villay and accurately described above by cooking the described above by cooking the first contents of this consignment are villay and accurately described above by cooking the described and are in all respects to proper condition for transport to highway according to generate the high content to the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the cont	OREGOM, 0P10 43616-7571	0.1	<u> </u>		<u>*</u>			E
a. HAZARDOUS HASTE SOLID, 8.0.S., 9. HA3077, PG III (MARINE PDLLITANT), RN(CH-DRDANE, DOOG, 2000), (EPG/31)  b.  c.  c.  d.  d.  13. Additional Descriptions for Materials Listed Above finclude physical state and hazard code / HAZARDOUS. CONTAMINATED SOIL  c.  15. Special Handling instructions and Additional Information  PMERGENCY CONTACT: INFOTRAC 800–535–5053  L34/607  21.73 T  16. GEREARDOUS SERTIFICATION haveby feetbare that the contents of this consignment are fully and accurately described above by no coper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to septiced international and actional operations. Statistical and actional operations are displayed and actional operations and anticolog operations. Statistical and actional operations are displayed and actional operations are fully and accourately described Bove by no coper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to septicide international and actional operations. Statistical and actional operations are fully and accourately described Bove by no coper shipping name and are classified, packed, marked, and labeled, and are in all stages are in the descriment of the become in an action of the contents of the consignment are fully and accourately described Bove by proper condition for transport by highway according to septicide international and actional operations. The description of the contents of the contents of the contents of the contents of the consignment are fully and accourately described Bove by proper conditions for transport by highway according to septical international and actional operations. The description for transport by highway according to septical international and actional operations. The description for transport by highway according to describe the base when unsugement marked to be economically practicable and the transport by highway acco	11 US DOT Description (Including Proper Ship	ning Name Hazard Class	and ID Numberl	12. Cont	ainers			
g. NA3077, PG III (MARINE POLLUTANT), R((CHLORDANS, DOOR), CEPGS31)  b.  c.  d.  d.  Additional Descriptions for Materials Listed Above findude physical state and hazard code. J.  *** Additional Descriptions for Materials Listed Above findude physical state and hazard code. J.  *** A 1509L-2001  *** The Marian Scientification of Materials Listed Above findude physical state and hazard code. J.  *** The Marian Scientification of Materials Listed Above findude physical state and hazard code. J.  *** The Marian Scientification of Materials Listed Above findude physical state and hazard code. J.  *** The Marian Scientification of Materials for the Companion of Materials for Marian Scientification of Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials for Materials f	11. US DOT Description finelading Proper Ship	omy Hame, Hazard Glass,		No.	Туре	Quantity	Wt/Vol	
Additional Descriptions for Materials Listed Above fincture physical state and hazard code.  d.  d.  d.  Additional Descriptions for Materials Listed Above fincture physical state and hazard code.  J. Additional Descriptions for Materials Listed Above fincture physical state and hazard code.  J. Additional Descriptions for Materials Listed Above fincture physical state and hazard code.  J. Additional Descriptions for Materials Listed Above fincture physical state and hazard code.  J. Additional Descriptions for Materials Listed Above fincture physical state and hazard code.  J. Additional Descriptions for Materials Listed Above fincture physical state and hazard code.  J. Additional Descriptions for Materials Listed Above fincture physical state and hazard code.  J. Additional Descriptions for Materials Listed Above fincture physical state and hazard code.  J. Additional Descriptions for Materials Listed Above fincture physical state and hazard code.  J. Additional Descriptions for Materials Listed Above fincture physical state and hazard code.  J. Additional Descriptions for Materials Listed Above fincture physical state and hazard code.  J. Additional Descriptions for Materials Listed Above fincture physical state and hazard code.  J. Additional Descriptions for Materials Listed Above fincture physical state and hazard code.  J. Additional Descriptions for Materials Listed Above fincture physical state and hazard codes for Wastes Listed Above J. Additional Information physical state and hazard codes for Wastes Listed Above J. Additional Information physical state and hazard codes for Wastes Listed Above J. Additional Information physical state and Listed Above J. Additional Information physical state and hazard codes for Wastes Listed Above J. Additional Information physical state and hazard to the description of the description and toxical physical state and hazard to the description physical state and hazard toxical physical state and hazard toxical physical state and hazard toxical physical state and hazar	*HAZARDOUS WASTE SOLID. A	1.0.S.,		1				
d.  d.  d.  Additional Descriptions for Materials Listed Above <i>linclude physical state and hazard code. J.</i> HAZARDOUS CONTAMINATED SOIL  6.  9. 15698-001  C.  PRESENCY CONTACT: INFOTRAC 800-535-5053  16. GEREATORS SCRIFFIcATION: Interetly declare that the contents of this consignment are fully and accurately described above by proper shipping name and are dissinful, packed mandaring proper shipping name and are dissinful, packed mandaring are indicated and interest on proper condition for transport by highway according to applicable international and national government registrions.  If If an is large quantity generator, it certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be accommically proscitable nation. It is not a serial quantity generator. I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be accommically proscitable nation. It is not a serial quantity generator. I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be accommically proscitable nation. It is not a serial program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be accommically proscitable nation. It is not a serial quantity generator. I have made a good faith effort to minimize my waste generated on the part of the toxic waste management method that is available to me and that I have selected the prociscable method of treatment, storage, or disposal currently available to me and effect the last waste management method that is available to me and that I have selected the prociscable method of treatment, storage or disposal currently available to me and effect the last waste management method that is available to me and that I have selected the prociscable method of treatment. Storage or disposal currently available to me and effect the last waste management method t	9, NA3077, PG III (MARIN	IE POLLUTANT),				اسے در ہ	\	
d.  Additional Descriptions for Materials Listed Above Include physical state and hazard code.  Additional Descriptions for Materials Listed Above Include physical state and hazard code.  AZARDOUS. CONTAMINATED SOIL  C.  ADDITIONAL SOCIETY OF THE CONTACT.  INFOTRAC 800–535–5053  In CIRCURATORS CERTIFICATION: The breakly declare that the contents of this consignment are fully and accurately described above by propose shoping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If an a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of wasts generated to the degree I have determined to be economically practicable and that it has a program in place to reduce the volume and toxicity of wasts generated to the degree I have determined to be economically practicable and that it have selected the prociscular ments of the object of proper condition for transport by highway 1.  If an a sample quantity generator, I have made a good failst effort to minimize my wasts generation and select the best waste management method that is evaluable to me with minimizes the present and future threat to human health and the environments OR; if I am a small quantity generator, I have made a good failst effort to minimize my wasts generation and select the best waste management method that is evaluable to me and that I have proper to provide the proper to provide the provide the provided provided to me and that I have provided to provide the provided provided that the provided provided provided to me and that I have provided to me and that I have provided that the provided provided provided that the provided provided provided provided provided provided provided provided provided provided provided provided provided provided provided provided provided provided provided provided provided provided provided provided provided provided provided pro	RÓ(CHLORDÁNE, DOOP, DOZO)	, (ERG#31)		por	birto	V V1 38	<u> </u>	V 4 V
d.  3. Additional Descriptions for Materials Listed Above finctude physical state and hazard code.]  4. HAZARDOUS. CONTAMINATED SOIL  5. Listed Above  8. SC F C  9. Listed Bool  15. Special Handling Instructions and Additional Information  FMERGENCY CONTACT: INFOTRAC 800-535-5053  16. GENERATORS CERTIFICATION: Investigate that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, poked, and serial art separation in the second of the proper shipping name and are classified, poked, and serial art separation from the second of the consignment are fully and accurately described above by proper shipping name and are classified, poked, and serial art separation from the second of the consignment are fully and accurately described above by proper shipping name and are classified, poked, and serial art separation from the second of the second of the second of the consignment are fully and accurately described above by represent and surface and better the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the	b.							
d.  3. Additional Descriptions for Materials Listed Above finctude physical state and hazard code.]  4. HAZARDOUS. CONTAMINATED SOIL  5. Listed Above  8. SC F C  9. Listed Bool  15. Special Handling Instructions and Additional Information  FMERGENCY CONTACT: INFOTRAC 800-535-5053  16. GENERATORS CERTIFICATION: Investigate that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, poked, and serial art separation in the second of the proper shipping name and are classified, poked, and serial art separation from the second of the consignment are fully and accurately described above by proper shipping name and are classified, poked, and serial art separation from the second of the consignment are fully and accurately described above by proper shipping name and are classified, poked, and serial art separation from the second of the second of the second of the consignment are fully and accurately described above by represent and surface and better the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the					1 . 1			# Carlon
d.  3. Additional Descriptions for Materials Listed Above finctude physical state and hazard code.]  4. HAZARDOUS. CONTAMINATED SOIL  5. Listed Above  8. SC F C  9. Listed Bool  15. Special Handling Instructions and Additional Information  FMERGENCY CONTACT: INFOTRAC 800-535-5053  16. GENERATORS CERTIFICATION: Investigate that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, poked, and serial art separation in the second of the proper shipping name and are classified, poked, and serial art separation from the second of the consignment are fully and accurately described above by proper shipping name and are classified, poked, and serial art separation from the second of the consignment are fully and accurately described above by proper shipping name and are classified, poked, and serial art separation from the second of the second of the second of the consignment are fully and accurately described above by represent and surface and better the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the	·				<del> </del>			1.00 (C) 10.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.00 (C) 1.
Additional Descriptions for Materials Listed Above <i>Include physical state and hazard code</i> .  HAZARDOUS: CONTAMINATED SOIL  c.  15. Special Handling Instructions and Additional Information  FMERGENCY CONTACT: INFOTRAC 800–535–5053  16. GENERATOR'S CERTIFICATION: Thereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, Lertify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that have already continued to the contents of this consignment are fully and accurately described above by proper shipping name and are that the selected the prospecticable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I acknowledgement of Receipt of Materials  Printed/Typed Name  Month Day Year  I Acknowledgement of Receipt of Materials  Signature  Month Day Year  I Date  Month Day Year  I Date  Date  20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.  Date	c.							
Additional Descriptions for Materials Listed Above <i>Include physical state and hazard code</i> .  HAZARDOUS: CONTAMINATED SOIL  c.  15. Special Handling Instructions and Additional Information  FMERGENCY CONTACT: INFOTRAC 800–535–5053  16. GENERATOR'S CERTIFICATION: Thereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, Lertify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that have already continued to the contents of this consignment are fully and accurately described above by proper shipping name and are that the selected the prospecticable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I acknowledgement of Receipt of Materials  Printed/Typed Name  Month Day Year  I Acknowledgement of Receipt of Materials  Signature  Month Day Year  I Date  Month Day Year  I Date  Date  20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.  Date					1 1	1		3.8
Additional Descriptions for Materials Listed Above <i>Include physical state and hazard code</i> .  HAZARDOUS: CONTAMINATED SOIL  c.  15. Special Handling Instructions and Additional Information  FMERGENCY CONTACT: INFOTRAC 800–535–5053  16. GENERATOR'S CERTIFICATION: Thereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, Lertify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that have already continued to the contents of this consignment are fully and accurately described above by proper shipping name and are that the selected the prospecticable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I acknowledgement of Receipt of Materials  Printed/Typed Name  Month Day Year  I Acknowledgement of Receipt of Materials  Signature  Month Day Year  I Date  Month Day Year  I Date  Date  20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.  Date					1	J		N 43 4
HAZARDOUS CONTAMINATED SOIL  6. 9 156,98=001  C. 2. 156,98=001  15. Special Handling Instructions and Additional Information  FMFRGFNCY CONTACT: INFOTRAC 800-535-5053  16. GENERATORS CERTIFICATION: Thereby declare that the contents of this consignment are fully and accurately described above by propose shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a small quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. CR, II if am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I now selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. CR, II if am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I now a select the best waste management method that is available to me and that I now a select the best waste management method that is available to me and that I now a select the best waste management method that is available to me and that I now a select the best waste management method that is available to me and that I now a select the best waste management method that is available to me and that I now a select threat the proper of the selected that the control of the selected that the control of the selected that the control of the selected that the control of the selected that the control	u.			İ				audia national
HAZARDOUS CONTAMINATED SOIL  6. 9 156,98=001  C. 2. 156,98=001  15. Special Handling Instructions and Additional Information  FMFRGFNCY CONTACT: INFOTRAC 800-535-5053  16. GENERATORS CERTIFICATION: Thereby declare that the contents of this consignment are fully and accurately described above by propose shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a small quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. CR, II if am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I now selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. CR, II if am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I now a select the best waste management method that is available to me and that I now a select the best waste management method that is available to me and that I now a select the best waste management method that is available to me and that I now a select the best waste management method that is available to me and that I now a select the best waste management method that is available to me and that I now a select threat the proper of the selected that the control of the selected that the control of the selected that the control of the selected that the control of the selected that the control								
a. 15.59ecial Handling Instructions and Additional Information  FMFRGFNCY CONTACT: INFOTRAC 800–535–5053  16. GRNERATOR'S CERTIFICATION: hereby declare that the contents of this consignment are fully and accurately described above by proper shoping name and are classified, backed, marked, and babeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a target quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have a selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment (DR, II am as small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I have a generation and select the best waste management method that is available to me and that I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I am a small quantity generator, I am a small quantity generator, I am a small quantity generator, I am a small quantity generator, I am a small quantity generator, I am a small quantity generator, I am a small quantity generator, I am a			tate and hazard code.)	187, 4.3	K. Hand	ing Codes for W	astes Listed	Above
15. Special Handling Instructions and Additional Information  FMFRGFNCY CONTACT: INFOTRAC 800–535–5053  16. GENERATOR'S CERTIFICATION: hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment CR. If it am a small quantity generator, thave made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.  Printed/Typed Name  Printed/Typed Name  Printed/Typed Name  Printed/Typed Name  Signature  Month Day Year  19. Discrepancy Indication Space  20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.  Date  Date  Date  Printed/Typed Name  Signature  Month Day Year  19. Discrepancy Indication Space					a SC	45	c.	
FMERGENCY CONTACT: INFOTRAC 800–535–5053  16. GENERATOR'S CERTIFICATION: thereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, backed, marked, and lebeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment of the international generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.  Printed/Typed Name  Signature  Month Day Year  I P I Acknowledgement of Receipt of Materials  Signature  Month Day Year  I P I Acknowledgement of Receipt of Materials  Signature  Month Day Year  I P I Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Month Day Year  I P I Acknowledgement of Receipt of Materials  Signature  Month Day Year  I P I P I P I P I P I P I P I P I P I	6 1 10 YA = 10 YA			an agar .		00		
FMFRGENCY CONTACT: INFOTRAC 800–535–5053  16. GENERATOR'S CERTIFICATION: hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, backed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment of the stream of the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment of the stream of the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment of the printed/Typed Name was generation and select the best waste management method that is available to me and that it can afford.  Date  Printed/Typed Name  Signature  Month Day Year  19. Discrepancy Indication Space  19. Discrepancy Indication Space  20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.  Date					$\perp \nu$	X N	4	
FMFRGFNCY CONTACT: INFOTRAC 800–535–5053  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and sare in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable ment; OR, if I am a small quantity generator, I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable ment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that can afford.    Date		al Information	<u> </u>	) <u>' %, 3'</u>	<b>0.</b> 7 %	1 1 1 1 1 1 1 1	U. y see we alread	Canadida Anti-
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environant that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environant ment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I not a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I not a small quantity generator. I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me which minimizes the present and future threat to human health and the environant ment; OR is a small quantity generator. I have ment of the proper formation of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property	15. Special nationing instructions and Addition	armonnation		,			<i>~</i> .	<b>-</b>
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment to R. if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I ment of the degree I have determined to be economically practicable to the degree I have determined to be economically practicable to the degree I have determined to be economically practicable to the degree I have determined to be economically practicable to the degree I have determined to be economically practicable to the degree I have determined to the degree I have determined to be economically practicable to the which minimizes the present and future threat to human health and the environment to Receipt of Materials and that I have selected the practicable to the which minimizes the present and future threat to human health and the environment to Receipt of Materials and the form of the which minimizes the present and future threat to human health and the environment of the practicable to the which minimizes the present and future threat to human health and the environment of the practicable to the which minimizes the present and future threat to human health and the environment of the practicable to the which minimizes the present and future threat the determined to the economical that the practicable that t	CHEROCENCY CONTACT. INCO	TDAC 900 E2E	EUES	4	1346	01	21.	137
proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by hisping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by hisping according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I near the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the presen	OF VER ATORIC OF PAIGLOATION I heave by declared the	at the contents of this conside	ment are fully and accurately	described above t	oy sighway			
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.    Date	proper shipping name and are classified, packed, m	arked, and labeled, and are in a	all respects in proper condition	1 for transport by i	ngriway			
and that I have selected the practicable method of treatment, storage, or disposal currently available to me and that I ment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I ment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I ment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I ment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I ment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I ment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I ment; I am a small quantity generator. I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I ment; I am a small quantity generator.    Date		to observe an analysis	the volume and toxicity of wa	aste generated to t	he degree I ha	ave determined to b	e economically	y practicable
Date    Printed/Typed Name								
Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name    Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date	ment; OR, if I am a small quantity generator, I have can afford.	made a good faith errort to the	mining my waste generation of		_			
17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Printed/Typed Name  Signature  Month Day Year  Date  Printed/Typed Name  Signature  Month Day Year  Date  19. Discrepancy Indication Space  20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.  Date  Date	Printed/Tuned Name		Sionatule /	2 1			Month	
Printed/Typed Name    Signature   Acknowledgement of Receipt of Materials   Printed/Typed Name   Signature   Month Day Year	la I lan vida M. I I	Bender					10	1794
Printed/Typed Name    Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/Typed Name   Printed/	17. Transporter 1 Acknowledgement of Re	ceipt of Materials		·/				Date
18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Month Day Year  19. Discrepancy Indication Space  20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.  Date  Date			Signeture	· A	Λ	/	Month	Day Year
Printed/Typed Name Signature Nonth Day Year  19. Discrepancy Indication Space  20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.  Date		ugh	Muara	Wlles	ulic	wa/	طرا	1777¥
19. Discrepancy Indication Space  20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.  Date		ceipt of Materials				<del></del>	<u> </u>	
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.  Date	Printed/Typed Name		Signature				Month	l l l l
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.  Date	10.0				<del></del>	·		
Date	19. Discrepancy Indication Space	•						
Date	<u> </u>		· ·					
Date	00.5 111.0	f reasing of honordays	torials sourced by this ma	nifect except a	s noted in It	em 19		
	20. Facility Owner or Operator: Certification o	receipt of nazardous ma	tendis covered by this ma	anicat aveaht g	, increa iii il	J.II 1 J.		Date
1 Bab Josech; 18th 18h	Printed/Tuned Mama		Signatur		//		Month	
	1 Bob Jobeck:		13,1	AM	1	•	1/0	YAMY

FACILITY MAILS TO GENERATOR

Form Approved OMB No. 2050-0039, Expires 9-30-94

ESOI/Envirosafe Services of Ohio, Inc.
Associated Chemical and Environmental Services, Inc.
275 Ottor Creek Rd., P.O. Box 167571

Oregon, Ohio 43616-7571	CE	RTIFICATE OF DISPOSAL		
PAIST A — Generator Info	ormation	Co	MP6179	350-
Generator Name/	BATATRIES		_Generator USEPA ID#	
fanifest Document No		000 80	_	
ART B — Waste Dispos	al Information			
Product Code Number	Disposal Date Mo. Day Year	Disposal Method	Container No. Type	Weight
15698'001	10/18/94	28/11/11	1 TR	21.737
Disposal Method = D081-La	andfill: D082-Landfarm; T	04-Treatment		
,		anker; VT-Vacuum Tanker; RO-Rolloff		
certify receipt and disposal	of the above identified w	astes at this facility. I certify that the above	e described wastes were	disposed according t
applicable state & federal p	ermits and requirements	imposed by the denerator	ATE	
SIGNATURE			ATE	12 11
TITI C	/ al	a Ma Certiner		

SCALE MASTER

DISTRIBUTION OF COPIES WHITE — Office CANARY — Generator PINK — EPA





## COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE

One Winter Street Boston, Massachusetts 02108

se print or type. (Form designed for use on elite (12	-pitch) typewriter	.)						- +hh	10000
LINIEORM HAZARDOUS	1. Generator US	EPA ID No.	e c.n.	Dooug	nifest nent No.	2. Page of	_		ì
VV. 10 1	MIP 15 11 17	18/2/2/	212[5]	300	O T Y		e Manifest Docum	-	
3. Generator's Name and Mailing Address	-0						H37504a		
BEATRICE COMPANY C/O RETE 9 POND LANE, CONCORD, MA		•				B. State	Gen. IDBEATR	ICE, CO	
4. Generator's Phone (508) 371-142	22						ALEM ST.,	WOBURN	MA
5. Transporter 1 Company Name	-	6.	US EPA ID			Constant The Constant	Trans. ID		
FRANKLIN ENVIRONMENTAL SER	/., INC.	MIAIDI	018141	8 1 1 4	1   3   5			00 3	04.6451
7. Transporter 2 Company Name		8.	US EPA I	Number			sporter's Phone 5	<u> </u>	54-0.131
								111	
9. Designated Facility Name and Site Address ENVIROSAFE SERVICES OF OHIC	ŋ	10.	US EPA II	Number			sporter's Phone (	)	
876 OTTER CREEK RD., P.O.						G. Stat	te Facility's ID		quired
OREGON, OHIO 43616-7571		DHD	0 14 15	2 4 3	7 10 15	H. Fac	ility's Phone 419	255-	5100
					12. Cont		13. Total	14. Unit	Waste No.
11. US DOT Description (Including Proper Shipp)	ing Name, Hazard	Class, and ID	(Number)		No.	Туре	Quantity	Wt/Vol	
a.HAZARDOUS WASTE SOLID, N	.0.5								0.00
9. NA3077, PG III (MARIN	E POLLUTA	IT),			0.0.4	1		V	0.0.8
9, NA3077, PG III (MARIN RQ(CHLORDANE, DOOS, DOZO)	<u>, (ERG#31)</u>				100	1011	10015		4 4 4
b.									
					1 1	1 1	1 1 1 1 1		
			<del></del>			1 1			
С.						] ]			
						1 1			
d.									
					1	1 1			
in control organization to the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contr		cical etate en	d hezerd co	de l		K. Ha	ndling Codes for W	astes Listed	Above
J. Additional Descriptions for Materials Listed A HAZARDOUS CONTAMINATED SO	IL .				:				
<u> </u>	C. 387		703	. 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19	fs a	1"-5	1		
	Sec.		3.22			17	78 M	d.	
b:	d:d:	k (Charles	***			D. 2	es C House Property 200	1 9 <b>0</b>	See T (1 2000 SERVICES TO THE CONTROL OF
15 Special Handling Instructions and Additions	al Information		•					011	, , ,
PAGROCHOV CONTACT: INCOT	nac enn i	535-505	3			480	(60P	24	,33 T
EMERGENCY CONTACT: INFOT  16. GENERATOR'S CERTIFICATION: I hereby declare the			so fully and a	ccurately des	cribed above	bv			
proper shipping name and are classified, packed, ma	arked, and labeled, an overnment regulation	S.	JULU F F						
l .			ume and toxi	city of waste	generated to	the degree	I have determined to	be economica	lly practicable the environ-
If I am a large quantity generator, I certify that I have and that I have selected the practicable method of t ment; OR, if I am a small quantity generator, I have t	reatment, storage, or	disposal curren	tly available t my waste gen	o me which meration and s	ninimizes the elect the bes	t waste ma	inagement method th	at is available t	o me and that I
ment; OR, if I am a small quantity generator, I make to can afford.	made a good rains on								Date
Printed/Typed Name	4 0 0	, \	Signature	121	7	1	1	Mont	h Day Year
Van I / A QUIVANA/Ha	A Lok	1-	J.		1		<u> </u>	<u> </u>	Date
17. Transporter 1 Acknowledgement of Re	ceipt of Materials	ر ۱۳۰۰				<del>// /</del> -		Mont	
Printed/Typed Name		-	Signoture	$\mathcal{I}$	1	<b>)</b>		المرا	al on bu
18. Fransporter 2 A knowledgement of Re	caint of Materials		<del>-\</del>	119/4	The			70	Date
18. Transporter 12. A knowledgement of Re	Corpt of Materials		Signature					Mont	th Day Year
R				//					
19. Discrepancy Indication Space		_	•						
F					•				
				41.7			in Itom 10		
20. Facility Owner or Operator: Certification o	f receipt of hazard	ous materials	covered by	rtnis manife	ust except	as 110180 I			Date
T			Signatur	, //		//	/	Mon	
Y Printed Typed Name				1/3	1//	11		1/4	7VXVY
1 Dob Jobecki			·	1.11:	<del>- Herella</del>				7

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

USEPA 1D OHD 045243706 Ohio EPA 03-48-0092

876-Otter Creek Rd., P.O. Box 167571

Oregon, Ohio 43616-7571

#### CERTIFICATE OF DISPOSAL

PART A — Generator Int	formation BEATRIC	٤٤	MP6/79 _Generator USEPA ID#	
Manifest Document No		00079	-	
PART B - Waste Dispos	sal Information			
Product Code Number	Disposal Date Mo. Day Year	Disposal Method	Container No. Type	Weight
15698001	10,18,94	D8/11/11	1 TR	24,337
Disposal Method = D081-L	andfill; D082-Landfarm; T0	04-Treatment		
Container Types = DR-Drui	m; TR-Truck; CT-Cargo Ta	inker; VT-Vacuum Tanker; RO-Rolloff		
I certify receipt and disposa applicable state & federal p		istes at this facility. I certify that the above mposed by the generator.		
SIGNATURE	70	le ma Centrer 01	ATE	18.74

SCALE MASTER

DISTRIBUTION OF COPIES WHITE — Office CANARY — Generator PINK — EPA

# APPENDIX S MIXED CONTAMINANT SOIL COMPLIANCE SAMPLING PLAN

This appendix was originally presented in the 100% Design Report Mixed Contaminant Soils sa Appendix H.

#### **Table of Contents**

No.	Section	Page No.
1.0	Introduction	1
2.0	Compliance Sampling	1
3.0	References	8
	List of Figures	
No.	Description	Page No.
1-1	Compliance Sample Locations	5
	Attachments	
H-1	Variance Calculations	
H-2	Number of Compliance Sample Calculations	
H-3	Random Coordinate Calculations	

#### 1.0 INTRODUCTION

Compliance sampling of the soil is necessary to ensure the mixed-contaminant soil has been remediated to site clean-up levels. This Compliance Sampling Plan is a supplemental document to the Design Report for Mixed Contaminant Soils at the Wildwood property. Refer to the Design Report for site history and background.

Compliance samples will be collected to verify that the excavation levels specified in the Consent Decree for mixed contaminant soils are attained in the areas of excavation. The clean-up levels are as follows:

Mixed Contaminant Soil Cleanup Goals

COMPOUND	BASIS	TARGET SOIL CONCENTRATION (ppm)
Chlordane	R	6.140
4,4-DDT	R	23.500
*ΣcPAHs	R	0.690
PCBs	R	1.040
Lead	В	640.0

(Source: EPA, 1990, Consent Decree, Appendix II, Pg.5)

*The cPAHs are: benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-c,d)perylene. This level refers to the total of all cPAHs at any one location.

#### 2.0 COMPLIANCE SAMPLING

The methods developed in this compliance sampling plan are based on the EPA guidance document "Methods for Evaluating the Attainment of Cleanup Standards" (EPA,1989). The EPA guidance document describes a statistical method for determining with a specified level of confidence whether site remediation has achieved the cleanup standards. Compliance samples will be collected after all possible impacted soils have been excavated in each area. These samples will demonstrate that the mean concentrations of each of the mixed contaminants in the areas of excavation are below soil action levels established in the Consent Decree. The mean concentration was chosen to demonstrate that the concentration of the mixed contaminants in the areas of excavation are below the cleanup standards because the areas of concern are small and fairly uniform in contaminant concentration. The larger uncontaminated areas outside the areas of excavation are excluded from the mean calculation ensuring that an inaccurate dilution of the mean concentration does not occur.

The EPA guidance document describes a methodology that includes calculating the number of compliance samples necessary to determine if the site remediation has achieved the cleanup standards, based on the variability of contaminant concentrations. Once the number of compliance samples has been determined, and the samples collected, the guidance document provides a method for determining with a specified level of confidence whether the site has achieved the cleanup standards for each particular contaminant. If the site is declared below cleanup levels for all mixed contaminants, no further excavation of soils is necessary. If, however, the site is declared above cleanup criteria with respect to a particular contaminant, further excavation and sampling will be necessary to conclude the site is clean.

#### 2.1 Determining the Number of Compliance Samples

The procedures followed to determine the number of compliance samples are described in Chapter Six of the EPA guidance document. The number of samples depends on the anticipated variability of the soil measurements. An estimate of this sample variability, or variance ( $\sigma^2$ ), of the soil contamination levels must be obtained. Section 6.3.1.1 of the guidance document describes how data obtained from previous studies at the site can be used to obtain an estimate of the variance, or alternatively the standard deviation ( $\sigma$ ), of the contamination levels.

Mixed-contaminant data from the Remedial Investigation and the Predesign Investigation were used to estimate the variance of each mixed contaminant at the site. The data set was chosen to best describe the inherent variability of mixed-contaminant levels at the site once the areas of mixed-contaminant soils have been excavated. For each mixed contaminant, the data set included all samples with concentrations below the cleanup standard. Because the soils above the cleanup standards will have been removed during excavation, this data set provides the best estimate of the variability of the remaining soils. All samples with concentrations below the detection limit were taken as one-half of the detection limit. No detection limits were available for data from the Remedial Investigation. For these data, an average of the detection limits available from the Predesign Investigation was used. For chlordane, cPAHs, and PCBs, which are mixed contaminants with multiple constituents, the detection limits of the individual constituents were summed. For these same mixed contaminants, the detected concentrations were summed to establish a concentration for the groups of constituents.

Calculations of variance for each mixed contaminant are presented in Attachment H-1. Over 20 observations were used to calculate the variance for each mixed contaminant. The equation for calculating variance is provided in the EPA guidance document as equation 6.2.

Once the variance of each mixed contaminant was determined, the procedures in Section 6.3.2 of the EPA guidance document were used to determine the number of compliance samples. Sample number calculations are presented in Attachment H-2. The number of samples required in each area to demonstrate the attainment of cleanup standards was based on a 5% probability of a true mean soil concentration being above its cleanup standard when the sample mean is equal to 57% of the cleanup standard. The probability of declaring the site above cleanup standards when it is actually below was chosen to be 20%. The selection of these probabilities was based on standard values used in the guidance document.

When the EPA guidance document procedure was followed, only one sample was calculated to be necessary to show compliance in each area. One sample in each area, however, will not accurately determine the mean and standard deviation of the compliance sample data set. As a result, more compliance samples will be collected from each area to ensure an adequate number of data points with which to calculate compliance.

Fourteen samples were distributed between Areas 1, 2, 3, and 4. The area in which compliance samples are to be collected was 20% larger than the area of mixed-contaminant soils to assure compliance at the horizontal boundaries. Three samples were assigned to Area 1. Three samples were also assigned to Area 4. The remaining eight samples were distributed between Areas 2 and 3 based on a weighting determined by their respective areas. This weighting

determined that six samples will be collected in Area 2 and two samples will be obtained in Area 3.

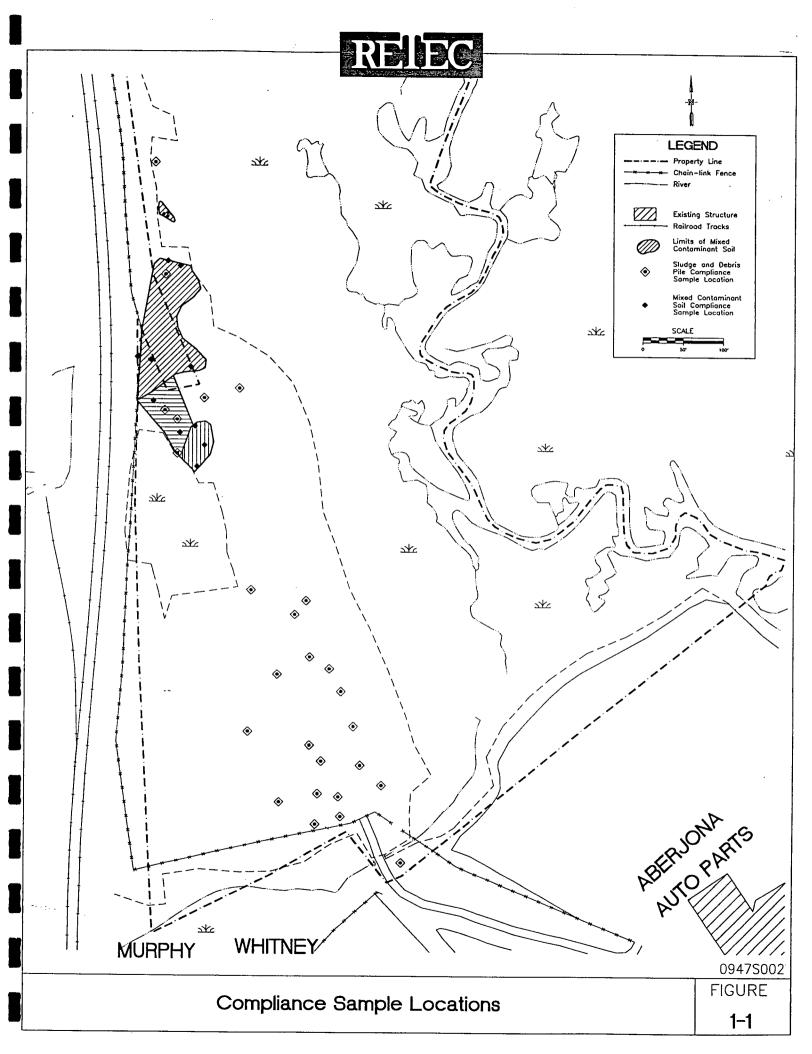
The Predesign Investigation established four separate areas where soils contained mixed contaminants above cleanup standards. Between Areas 2 and 3 is an area where a multitude of drums has been found, and where mixed-contaminant soils may exist. Therefore a fifth area, Area 5, has been added to the mixed-contaminant soil remediation and compliance sampling program. The number of mix.3d-contaminant compliance samples to be collected in Area 5 was determined by calculating the density of samples in the combined Areas 2 and 3 (i.e. the area/number of samples), and assigning the same density of samples to Area 5. Two compliance samples will be obtained from Area 5. Therefore, the total number of compliance samples to be obtained after the excavation of the mixed-contaminant soils is 16.

#### 2.2 Determining Sample Locations

Once the number of compliance samples was determined for each of the five excavation areas, the locations of the compliance samples was determined. The procedures for locating compliance samples outlined in Section 5.3 of the guidance document were used. A random starting coordinate (X,Y) was calculated within the area. A systematic grid was then constructed over the area in which the compliance samples are to be collected. The spacing of samples inside the grid was based on the size of the area and the number of samples required. Sample points are located on the systematic grid nodes. This procedure was repeated for each of the five areas. Random coordinate calculations are presented in Attachment H-3. The locations of the compliance samples are presented in Figure 1-1.

#### 2.3 Compliance Sampling

Compliance sample locations will be staked from the site baseline with a tape and transit. Compliance samples will be collected after all possible impacted soils have been excavated. The samples will be composited over a depth of zero to twenty-four inches. Sample collection procedures are detailed in the Sampling and Analysis Plan (RETEC, 1993). Samples in each area will be analyzed for the five mixed contaminants. Twenty percent of all the samples will be analyzed for the full TCL/TAL list of compounds.



#### 2.4 Determining Whether the Site Attains Cleanup Levels

In order to decide whether the site attains the cleanup levels for mixed contaminants, the mean concentration of each mixed contaminant determined by the compliance samples is compared to the cleanup standard. In addition to calculating the mean concentration, the standard deviation of the data is also calculated to determine the variability, or spread, of the data. These two quantities, in addition to the number of samples, and the degree of confidence, determine whether the site attains the cleanup standard for a particular contaminant. An upper one-sided confidence interval on the mean is calculated for each contaminant and compared to the cleanup standard. If the upper confidence interval is below the cleanup standard, the site is declared below cleanup standards for that particular contaminant. If the upper confidence interval is above the cleanup standard, the site is still considered above cleanup standards for the contaminant. This decision process is described in Sections 6.3.3 and 6.3.4 of the EPA guidance document and calculations are presented in Worksheet 7. This worksheet is included as Attachment H-3.

In order to have an adequate number of compliance samples to obtain a mean and standard deviation representative of conditions at the site, the analytical data from the five areas will be combined into one data set. The mean and standard deviation of the sixteen samples will be obtained. When calculating the mean of the data, the detection limits will be used for all non-detected values. When calculating the standard deviation, one-half of the detection limit will be used. For chlordane, cPAHs, and PCBs, which are mixed contaminants with multiple constituents, the detection limits of the individual constituents will be summed. For these same mixed contaminants, the detected concentrations will be summed to establish a concentration for the groups of constituents. A 95% confidence level will be assumed when testing the mean. Calculations presented in Worksheet 7 of the EPA guidance document will be used to determine whether the site is above or below cleanup standards with respect to each of the mixed contaminants. If the site is declared clean with respect to a particular mixed contaminant, no further excavation of soils impacted by this mixed contaminant will be necessary.

#### 2.5 Additional Sampling Required if the Site is Declared Above Cleanup Standards

If the site is declared above the cleanup standard with respect to a particular mixed contaminant, the sample location(s) that caused the upper confidence interval to fall above the cleanup standard will be determined. Additional excavation of soils in that area of the sample location(s) will be required to show that the site is in compliance. The extent of further excavation will be determined by visual observations and the use of field immunoassay testing,

as described in the Design Report. Immunoassay samples will be collected in the area around the original compliance sample location to aid in defining the extent of excavation necessary to remove the remaining contaminanted soil. Once this area has been defined, the soil will be excavated using the same procedures as in the original excavation. A new compliance sample will then be taken in the location of the original sample.

The data from the new compliance sample(s) will then replace the data from the original sample(s) in the mean and standard deviation calculations. The upper confidence interval will be recalculated based on this modified data set and compared to the cleanup standard. If the upper confidence interval is less than the cleanup standard, and the site is declared clean, no further excavation will be necessary for the particular mixed contaminant. If the upper confidence interval is greater than the cleanup standard, and the site is declared above cleanup standards, the process of further excavation and sampling will continue until the site is declared clean.

#### 3.0 REFERENCES

EPA, "Methods for Evaluating the Attainment of Cleanup Standards; Soils and Solid Media. Volume I", February 1989.

## ATTACHMENT S-1 VARIANCE CALCULATIONS

#### Variance Calculation for 4,4-DDT

Wells G&H

			-		
data	hel	nw	cle	ean	เมก

and a Commission of the Commission of	or Charles And		Xi	(Xi)^2
Sample	Concentra (mg/kg		251	(**') ~
GD 15	(mg/k	2,)***********		3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
SB-15		l	1	ŀ
SB-14		i		
SB-8	. ID		0.017	0.000289
	ND	ı	0.017	0.000289
1~~	ND		0.017	0.000289
100 1	ND	1	1	0.000289
102 1	ND		0.017	0.000289
A-14			, ,	1.21
SB-5-01	•	1.1	1.1	1.21
SB-6				
SB-13		1		
SB-12				
SB-7				0.0101
WI-SS06		0.11	0.11	0.0121
WI-SS07		0.21	0.21	0.0441
SB-1-01	ИD		0.017	0.000289
SB-1-02	ND		0.017	0.000289
SB-2	ИD		0.017	0.000289
SB-10				
SB-9				·
SB-11				
PES 1&2				·
A-16		0.08	0.08	0.0064
SB-5			ļ	
SB-1	i			
SB91-9-01	ИD		0.155	0.024025
SB91-9-02	ND		0.08	0.0064
SB91-9-02RE	<u> </u>		1	
SB91-9-03	ND		0.00195	3.802E-06
SB91-10-04		0.0042	0.0042	0.00001764
SB91-10-04RE	Ì			1
SB91-12-02	ND		0.0019	3.610E-06
SB91-13-02	1	0.013	0.013	0.000169
SB91-13-02RE				<b>!</b>
SB91-13-03	ND		0.002	4.000E-06
SB91-13-04	ND		0.00195	3.802E-06
SB91-14-02	ND		0.0019	3.610E-06
SB91-15-02	ND		0.00245	
SB91-16-02	ND		0.008	
SB91-16-02RE				
SB91-3-02	ND		0.012	0.000144
SB91-1-02	ND		0.00205	
SB91-5-01	ND		0.00455	
SB91-7-04	ND		0.0027	
SB91-7-04 SB91-7-04RE	1		1	
SB91-7-04RE SB91-7-05	ND		0.00215	4.623E-06
	ND		0.00195	
SB91-7-06			0.0013	
SB91-08-04	ND		0.0024.	0.00215-00
SB91-08-04RI	-		1	<del></del>

Summation	1.9192	1.30551409
n	29	
Variance	0.042	

Note: All ND's represented as one half of the detection limit of each sample from the predesign investigation; no detection limits are available for the RI data, so an average of predesign detection limits was used.

#### Variance Calculation for Chlordane

Wells G&H

uata ocion cicaliui	data	below	cleanur
---------------------	------	-------	---------

Sample	Concentration	Xi	(Xi)^2
	(mg/kg)		
SB-15			0
SB-14			0
SB-8			0
SB-4-02	0.219	0.219	0.047961
SB-4-03	0.069	0.069	0.004761
SB-3-01	ND	0.0165	0.00027225
SB-3-02	ND	0.0165	0.00027225
A-13-02	ND	0.0165	0.00027225
SB-5	0.064	0.064	0.004096
SB-6		•	
SB-13			
SB-12			
SB-7			
WI-SS07	ND	0.0165	0.00027225
SB-2	ND	0.0165	0.00027225
SB-10			
SB-9			
SB-11			
PES 1&2	40000		
A-16	9.3		
A-13-01	ND	0.04	0.0016
SB-5			
SB-1	23		
SB91-9-01	ND	0.16	0.0256
SB91-9-02	ND	0.082	0.006724
SB91-9-02RE			
SB91-9-03	ND	0.002	4.000E-06
SB91-10-04	ND	0.002	4.000E-06
SB91-10-04RE			
SB91-12-02	ND	0.0019	3.610E-06
SB91-13-02	ND	0.0018	3.240E-06
SB91-13-02RE	1		
SB91-13-03	ND	0.002	4.000E-06
SB91-13-04	ND	0.002	4.000E-06
SB91-14-02	ND	0.002	4.000E-06
SB91-15-02	ND	0.0025	6.250E-06
SB91-16-02	ND	0.0081	0.00006561
SB91-16-02RE	· -		
SB91-3-02	ND	0.012	0.000144
SB91-1-02	ND	0.0021	4.410E-06
SB91-5-01	ND	0.0047	0.00002209
SB91-7-04	ND	0.0028	7.840E-06
SB91-7-04RE	_		"
SB91-7-05	ND	0.0022	4.840E-06
SB91-21-01	0.0064	0.0064	0.00004096
SB91-08-04	ND	0.0025	6.250E-06
SB91-08-04RE	⁻		
	<del></del>	<u> </u>	L

 Summation
 0.7735
 0.09243235

 n
 27

 Variance
 0.003

Note: All ND's represented as one half of the detection limit of each sample from the predesign investigation (sum of chlordane d.l.s); no detection limits are available for the RI data, so an average of predesign detection limits was used.

#### Variance Calculation for cPAHs

Wells G&H

data	be.	low	C.	leanu	p

Sample	Concer	tration	Xi	(Xi)^2
	(m	g/kg)		
SB-15-01	ND		0.289	0.083521
SB-15-02		0.075	0.075	0.005625
SB-14-01	ND		0.289	0.083521
SB-14-02	ND		0.289	0.083521
SB-8-01		0.282	0.282	0.079524
SB-8-02	ND		0.289	0.083521
SB-4-02	-	0.48	0.48	0.2304
SB4-03	ND		0.289	0.083521
SB-3-01	ND		0.289	0.083521
SB-3-02	ND		0.289	0.083521
WI-SS06	ND		0.289	0.083521
SB-6-01	ND		0.289	0.083521
SB-6-03	ND		0.289	0.083521
SB-13-01	ND		0.289	0.083521
SB-13-02	ND		0.289	0.083521
SB-12-01	ND		0.289	0.08352
SB-12-02	ND		0.289	0.08352
SB-7-01	ND		0.289	0.08352
SB-7-03	ND		0.289	0.08352
WI-SS07	ND		0.289	0.08352
SB-2	ND		0.289	0.08352
SB-10-01	1	1.86	1	
SB-10 <b>-</b> 02	ND		0.289	0.08352
SB-9-02		29.9		
SB-9-03	ND		0.289	0.08352
SB-11	1	0.692	ļ	}
SB-5-01	ŀ	23.8	İ	
SB-5-03	ND		0.289	0.08352
SB-1-02	1	3		
SB-1-01	ND		0.289	0.08352
SB91-9-01	l	0.054	0.054	0.00291
SB91-9-02	ND		0.287	0.08236
SB91-10-04	ND		0.273	0.07452
SB91-12-02	ND		0.266	0.07075
SB91-13-02	ND		0.252	0.06350
SB91-13-03	ND		0.28	1
SB91-14-02	ND		0.266	
SB91-15-02	ND		0.343	0.11764
SB91-16-02		0.061	•	la contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contractio
SB91-3-02	ND		0.252	1
SB91-1-02	1	0.209	0.209	
SB91-5-01	ND		0.322	0.10368
SB91-7-04RE		0.121	0.121	0.01464
SB91-7-05	ND		0.294	0.08643
SB91-08-04	ND		0.343	0.11764

 Summation
 10.818
 3.147206

 n
 40

 Variance
 0.006

Note: All ND's represented as half of the detection limit of each sample from the predesign investigation (sum of cPAH d.l.s); no detection limits are available for the RI data, so an average of predesign detection limits was used.

#### Variance Calculation for PCBs

Wells G&H

data below cleanup

Sample	Concentration	Xi	(Xi)^2
J. J. J. J. J. J. J. J. J. J. J. J. J. J	(mg/kg)		` '
SB-15	0.6	0.6	0.36
SB-15-02	ND	0.1675	0.02805625
SB-14-01	0.14	0.14	0.0196
SB-14-02	0.14	0.14	0.0196
SB-8	ND	0.1675	0.02805625
SB-4-01	ND	0.1675	0.02805625
SB-4-03	0.081	0.081	0.006561
SB-3-01	ND	0.1675	0.02805625
SB-3-02	0.08	0.08	0.0064
SB-13	0.17	0.17	0.0289
SB-11	ND	0.1675	0.02805625
SB-12-01	ND	0.1675	0.02805625
SB-12-02	ND	0.1675	0.02805625
SB-5	ND	0.1675	0.02805625
SB-2	ND	0.1675	0.02805625
SB-10-01	130		
SB-10-02	ND	0.1675	0.02805625
SB-9-01	3	Ì	
SB-9-03	0.13	0.13	0.0169
SB-1	25	ł	
SB91-9-03	0.041	0.041	0.001681
SB91-10-04	ND	0.157	0.024649
SB91-12-02	ND	0.152	0.023104
SB91-19-01	0.12		0.0144
SB91-13-03	ND	0.1605	0.02576025
SB91-13-04	ND	0.1565	0.02449225
SB91-14-02	ND	0.1525	0.02325625
SB91-15-02	ND	0.197	0.038809
SB91-1-02	ND	0.164	0.026896
SB91-5-01	0.8	E .	
SB91-7-04	0.29		
SB91-7-05	ND	0.1725	1
SB91-21-01	0.16	•	
SB91-08-04	ND	0.1965	0.03861225
SB91-9-01	250		
SB91-9-02	60	1	
SB91-3-02	1.3		17:063075
Summation	1	5.9355	1.75963975
n		31	
Variance	2	0.021	

Note: All ND's represented as half of the detection limit of the sum of the detection limits of Arochlors from the predesign investigation, no detection limits are available for the RI data, so an average of predesign detection limits was used.

#### ATTACHMENT 5-2

NUMBER OF

COMPLIANCE SAMPLE CALCULATIONS

#### Wildwood Property Compliance Sampling Plan

#### **Assumptions:**

•		·	Z value
False positive prob:	0.05	(alpha)	1.645
False neg prob:	0.2	(beta)	0.842
Cleanup Standards:			
chlordane	6.14	Cs	
4.4-DDT	23.5		
cPAHs	0.69		
PCBs	1.04		
lead	640		

Using power curve to determine u1:

u1- the mean concentration where the site should be declared clean with a high probability From power curves given on pg A-13, choose curve C.

u1 = .57Cs

#### Sample Size Calculations

i	beta	Z beta	Cs	u1	A	variance	nj=var/A
chlordane	0.2	0.842	6.14	3.500	1.126995	0.003	0.003
4.4-DDT	0.2	0.842	23.5	13.395	16.50901	0.042	0.003
CPAHs	0.2	0.842	0.69	0.393	0.014233	0.006	0.422
PCBs	0.2	0.842	1.04	0.593	0.032333	0.021	0.649
lead	0.2	0.842	640	364.800	12244.62	3031	0.248

0.65

 $A = ((Cs-u1)/(Zalpha-Zbeta))^2$ 

Fraction of analyzable samples: R 0.95

0.684

Rounded up:

1

#### Wildwood Property Mixed Contaminant Soils

Area Number	Area (sq. feet)	Number of Samples	Area/ Number of Samples
1	270	3	90
2	8,935	6	1,489
3	1,660	2	830
4	400	3	133
5	3,240	2	1,324

16

(1) To calculate the number of samples in Areas 2 and 3, 8 samples were distributed based on a weighting of the areas:

	Area	samples	•	
Areas 2 and 3	10,595	8	1,324	
			·	
weighting 2, 3			rounding	
2/2+3	0.84	6.75		6 samples
3/2 + 3	0.16	1.25		2 samples

(2) To calculate the number of samples in Area 5, the same density of samples in Areas 2 and 3 combined was used:

Area 5 area/ (area/number of samples) = number of samples (rounded) 3,240/1,324=2

Attachment H-3

Random Coordinate Calcuations

# RANDOM SAMPLE COORDINATE LOCATION SELECTION CALCULATIONS FOR MIXED CONTAMINANT COMPLIANCE SAMPLING

Maximum X	Minimum X	Maximum Y	Minimum Y	Area	Random X Coordinate	Random Y Coordinate	Inside/Outside Sample Area
698881.29	698796.51	544243.53	544118.24	5	698805.13 698858.95 698824.04 698826.05 698870.14 698877.96	544153.18 544163.53 544131.69 544164.63 544234.16 544171.70	Outside Inside Outside Outside Outside Inside
698853.56	698829.44	544452.91	544422.64	1	698842.94 698837.66 698842.05	544436.29 544434.92	Inside Inside Inside
698902.62	698799.35	544396.09	544184.91	2	698872.86 698843.15 698858.62 698899.14 698825.88 698805.67 698822.21	544244.59 544376.58 544370.35 544203.22 544203.39 544257.30 544254.02	Inside Inside Inside Outside Inside Inside Inside Inside Inside
698923.45	698858.69	544183.96	544107.28	3	698918.22 698889.97 698872.74 698880.91	544167.27 544148.08 544109.87 544121.31	Outside Inside Outside Inside

Note: Formula used X = Xmin + (Xmax - Xmin) *RND

Reference Box 5.1 of EPA Methods for Evaluating the Attainment of Cleanup Standards. February 1989.

# APPENDIX T MIXED SOIL COMPLIANCE TESTING

#### MIXED SOIL COMPLIANCE TESTING

In accordance with the 100% Design Report for Mixed-Contaminant Soils: Compliance Sampling Plan, the results from the soil samples collected after the excavation of mixed-contaminant soils were analyzed to determine compliance with site cleanup objectives.

A total of seventeen samples were collected during compliance sampling using the procedures described in the 100% Design Report. One of the seventeen samples collected was a field duplicate. Five of the seventeen samples were analyzed for the full TCL/TAL list of analytes. The remaining twelve samples were analyzed for the following mixed contaminants: chlordane, 4,4-DDT, cPAHs, PCBs, and lead. The results of the compliance sampling were compiled and validated according to CLP data validation procedures.

The methods developed in the Compliance Sampling Plan are based on the EPA guidance document, "Methods for Evaluating the Attainment of Cleanup Standards" (EPA, 1989). The document describes statistical methods for determining with a specified level of confidence whether site remediation has achieved the cleanup standards. The statistical procedures used to determine compliance are detailed in the Compliance Sampling Plan.

In order to determine whether the excavation of mixed-contaminant soils has achieved site cleanup levels, the mean concentration of each mixed-contaminant determined by the compliance samples was compared to the cleanup standard. When calculating the mean, the detection limits were used for all non-detected values. In addition to calculating the mean, the standard deviation of the data was calculated to determine the variability, or spread, of the data. When calculating the standard deviation, one-half of the detection limit was used for all non-detected values. For chlordane, cPAHs, and PCBs, which are mixed contaminants with multiple constituents, the detection limits of the individual constituents were summed. For these same mixed contaminants, the detected concentrations were summed to establish a concentration for the groups of constituents. The mean and standard deviation values calculated for each of the mixed contaminants are provided in Table 1.

The mean and the standard deviation, in addition to the number of samples collected and the degree of confidence specified, determine whether the excavation has achieved site cleanup objectives. The number of samples collected is sixteen. The degree of confidence specified is 95%. An upper one-sided confidence interval on the mean was then calculated for each mixed contaminant and then compared to the cleanup standard. If the upper confidence interval was below the cleanup standard, the site was declared below cleanup standards for that mixed contaminant. If the upper confidence interval was above the cleanup standard, the site was considered above cleanup standards for that mixed contaminant. Calculations for determining the mean, standard deviation, and upper confidence interval for each mixed contaminant are presented using Worksheet 7 of the EPA guidance document and are included as an attachment.

For each mixed contaminant, the upper confidence interval was calculated and compared to the cleanup standard. In all cases, the upper confidence interval was below the cleanup standard. The site was declared clean with respect to each mixed contaminant, and no further excavation of soils was deemed necessary.

3-0947\Appendix T March 15, 1995

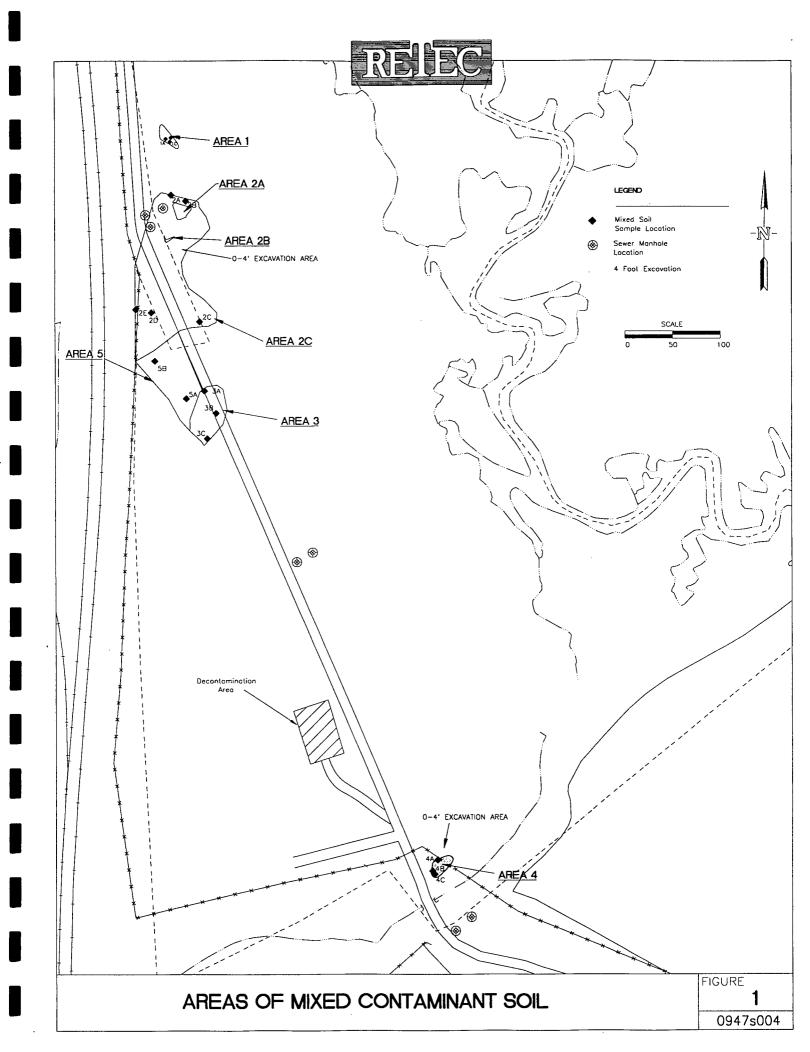
Table 1 Mixed contaminants (mg/Kg) Compliance Sample Summary

	Target	MS-1A	MS-1B	MS-1C	MS-2A	MS-2B	MS-2C	MS-2D	MS-2E	MS-2F
Compound	Concentration	10/04/94	10/04/94	10/04/94	10/04/94	10/04/94	10/04/94	10/04/94	10/04/94	10/11/94
Lead	640	6.4	12.2	2.4	5.9	6.7	6.1	4.4	212	6.1
Chlordane	6.14	0.004	0.005	0.001	0.017	0.004	0.003	0.003	0.143	0.004
4, 4 - DDT	23.5	0.004	0.005	0.004	0.004	0.004	0.003	0.003	0.209	0.003
cPAHs	0.69	0.268	0.395	0.286	0.284	0.276	0.251	0.271	0.283	0.256
PCBs	1.04	0.049	0.109	0.052	0.735	0.300	0.274	0.272	0.177	0.269
STA	ATUS	pass	pass	pass	pass	pass	pass	pass	pass	pass

	Target	MS-3A	MS-3B	MS-4A	MS-4B	MS-4C	MS-5A	MS-5B	Standard	Mean
Compound	Concentration	10/11/94	10/11/94	10/04/94	10/04/94	10/04/94	10/11/94	10/11/94	Deviation	Concentration
Lead	640	6.5	6.5	6.0	6.5	2.1	6.6	6.3	52.1	18.9
Chlordane	6,14	0.009	0.004	0.002	0.004	0.003	0.046	0.28	0.075	0.033
4, 4 - DDT	23.5	0.002	0.004	0.003	0.004	0.003	0.007	0.003	0.052	0.017
cPAHs	0.69	0.264	0.273	0.253	0.268	0.257	0.273	0.262	0.040	0.276
PCBs	1.04	0.289	0.297	0.273	0.291	0.279	0.295	0.284	0.155	0.265
STA	TUS	pass	pass	pass	pass	pass	pass	pass	pass	pass

Notes:

All concentrations mg/kg



#### Mixed Contaminant Soil (continued) cPAHs (ug/Kg) Compliance Sample Summary

C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U   C. 265 U	
C   Cheenstay   Parts	
2. Cherophenic	
3 Thickinchemmon	
A   Chicken continue	
2. Declare communication   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2. Add by plants   2.	
2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U   2. 245 U	
2.7 - cyyled Chevysopens) + Methylpined + Methylpined + Methylpined + Methylpined + Methylpined - Sas U + Methylpined - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U - Sas U	
A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Section   A Se	
Not   Not   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Se	
Second Content	
Sirk-bosses	
September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   Sept	
A	
2.4 Flority places to C. Chiorocheny Insubase to C. Chiorocheny Insubase 1. 2.4 Trinibrochemens Nephalases 4. Chiorocheny Insubase 1. 2.4 Trinibrochemens Nephalases 4. Chiorocheny Insubase 4. Chiorocheny Insubase 4. Chiorocheny Insubase 4. Chiorocheny Insubase 4. Chiorocheny Insubase 4. Chiorocheny Insubase 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trinibrochemens 1. 2.4 Trini	
C. Chiconollary Imminant 2,4-Hickinosphered 1,2,4-Tickinosphered 1,2,4-Tickinosphered 1,2,4-Tickinosphered 4 Chiconolline   Henchchordstations	
2,4-Dictionsphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,2,4-Tickinosphered [1,	
Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Comp	
Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Comp	
Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Comp	
Hearthiropheniciless	l l
### ACK-on-Prescriptyland   C	
2. Marty implifiables   Name	
Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Comp	'
2.4.5.Trichlorophonol 2.4.5.Trichlorophonol 2.4.5.Trichlorophonol 2.4.5.Trichlorophonol 2.4.5.Trichlorophonol 2.4.5.Trichlorophonol 2.4.5.Trichlorophonol 2.4.5.Trichlorophonol 2.4.5.Trichlorophonol 3.Nitroniline Accorphiline 2.4.Distrophonol 3.Nitroniline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphiline Accorphil	
2.4.5.7 inchlorophonol   2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.Chloromylabales    2.C	
2-Chlorospitableses 2-Nitrosiline Directly jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubbleste Acceptably jubblest	
Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Com	
Compact by high balase	
Accessphily force	
2.6-Distrivolution 3-Nurvanilius Acceptablese 2.4-Distriptional Acceptablese 2.4-Distriptional Acceptablese 2.4-Distriptional Acceptablese 2.4-Distriptional Districtions Districtions Districtions Districtions Districtions Districtions Districtions Districtions Districtions Districtions Districtions Districtions Districtions  2.4-Districtions Districtions Districtions Districtions  2.4-Districtions Districtions  2.4-Districtions Districtions Districtions Districtions  2.4-Districtions Districtions Districtions  2.4-Districtions  2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U 2.45 U	
Shitraniline	
Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Comp	
2.4 Dintrophens  2.4 Dintrophens  Discriptions  2.4 Dintrophens  Discriptions  Discriptions  Discriptions  Discriptions  Discriptions  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children plants  A Children	
A Nitrophenal	ľ
Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Com	
2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2.45 U   2	
Disalphylabilists	
Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Com	
Company   Financial   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Co	
Nitroeniline	
Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Comp	
4,6-Dinites-2-methylphanest N-Nitracoliptoryl spains (1) 4-Brone-phoryl-phorylether Henschlorotheruses Persachlorotheruses Antifracese Antifracese Antifracese Antifracese Di-n-badylphilaises Di-n-badylphilaises Physicis Berylherusylphilaises 3,3-Dichlorotheruseline Bergo(alutheracese) Chysicis Bergo(alutheracese) Chysicis Bergo(alutheracese) Chysicis Bergo(alutheracese) Chysicis Bergo(alutheracese) Chysicis Bergo(alutheracese) Chysicis Bergo(alutheracese) Chysicis Bergo(alutheracese) Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis Chysicis	
### Remarkhorylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonylephonyle	
# Brosschierery   pierry   ethers	
Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hearth Substitute   Hear	
Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carbascie   Carb	
Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Carbarolic   Car	
Carbarole	
Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care	
Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care   Care	
Flavorathere	ĺ
Pyreus	ļ
Basyltenzylyteleiste	
3.3 - Dichjoroberozidine    Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Com	
Bestz(a) kinthracene	
Chrysens	
Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Com	< 39 U < 37 U
Disposite	
Bousso(b) (Boussobers   C   37 U   C   38 U   C   39 U   C   36 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   38 U   C   39 U   C   38 U   C   39 U   C   38 U   C   39 U   C   38 U   C   39 U   C   38 U   C   39 U   C   38 U   C   39 U   C   38 U   C   39 U   C   38 U   C   39 U   C   38 U   C   39 U   C   38 U   C   39 U   C   38 U   C   39 U   C   38 U   C   39 U   C   38 U   C   39 U   C   38 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   38 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   38 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   39 U   C   38 U   C   37 U   C   38 U   C   37 U   C   38 U   C   38 U   C   37 U   C   38 U   C   38 U   C   37 U   C   38 U   C   38 U   C   37 U   C   38 U   C   38 U   C   37 U   C   38 U   C   38 U   C   37 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38 U   C   38	
Demo() (horsesbero   < 37 U < 38 U < 39 U < 36 U < 38 U < 37 U < 39 U < 36 U < 38 U < 37 U < 39 U < 36 U < 38 U < 37 U < 39 U < 36 U < 38 U < 37 U < 39 U < 36 U < 38 U < 37 U < 39 U < 36 U < 38 U < 37 U < 39 U < 36 U < 38 U < 37 U < 39 U < 36 U < 38 U < 37 U < 39 U < 36 U < 38 U < 37 U < 39 U < 36 U < 38 U < 37 U < 39 U < 36 U < 38 U < 37 U < 39 U < 36 U < 38 U < 37 U < 39 U < 36 U < 38 U < 37 U < 39 U < 36 U < 38 U < 37 U < 39 U < 36 U < 38 U < 37 U < 39 U < 36 U < 38 U < 37 U < 39 U < 36 U < 38 U < 37 U < 39 U < 36 U < 38 U < 37 U < 39 U < 36 U < 38 U < 37 U < 39 U < 36 U < 38 U < 37 U < 39 U < 36 U < 38 U < 37 U < 39 U < 36 U < 38 U < 37 U < 39 U < 38 U < 37 U < 39 U < 38 U < 37 U < 39 U < 38 U < 37 U < 39 U < 38 U < 37 U < 38 U < 37 U < 39 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U < 38 U < 37 U	< 39 U < 37 U
Remo(a)pyress	< 39 U < 37 U
Indexec(1,2,3-cd)pyrene	< 39 U < 37 U
Dibers(a.h)anthracons < 37 W < 38 W < 39 W < 36 W < 38 W < 37 U < 39 W <	< 39 UJ < 37 U
11	< 39 UJ < 37 U
Berno(g,h,i)perylens < 245 U	

Notes:

U - The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.

J - The associated numerical value is an estimated quantity.

UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

# Mixed Contaminant Soil VOCs (ug/Kg) Compilance Sample Summary

	Soil Cleanup		1c			1d			2a			2d			4c	
	Level ug/kg		ug/kg			ug/kg			ug/kg			ug/kg			ug/kg	
Chloromethane		<	2.6	UD	<	1,310	UD		1,050	UD		1.2	U	<	1.2	U
Bromomethane		<	2.6	UD	<	1,310	UD		657	JD	<	1.2	U	<	1.2	U
Vinyl Chloride		<	2.6	UD	<	1,310	UD	1	1,050	UD	1 1	1.2	U	<	1.2	U
Chloroethane		<	2.6	UD	<	1,310	UD	<	1,050	UD	-	1.2	U	<	1.2	U
Methylene Chloride		<	55	ΩJ	<	3,684	J	<	3,013	UJ	<	9.6	UJ	<	23	UJ
Acetone		<	12	UJ	<	1,711	J	<	1,824	IJ	<	6.1	UJ	<	5.0	UJ
Carbon Disulfide		<	2.6	UD	<	1,310	UD		1,050	UD	1	1.2	U	<	1.2	U
1,1-Dichloroethene		<	2.6	UD	<	1,310	UD	<	1,050	UD		1.2	U	<	1.2	U
1,1-Dichloroethane		<	2.6	UD	<	1,310	UD	<.	1,050	UD	<	1.2	U	<	1.2	U
1,2-Dichloroethene (cis)			217	JD		18,772	JD	<u> </u>	3,576	D	<	1.2	U	<	1.2	U
1,2-Dichloroethene (trans)	83	٧	2.6	WD	<	1,310	W		1,050	UD			U	V	1.2	U
Chloroform	63	٧	2.6	WD	4	1,310	W	<	1,050	UD	<	1.2	U	٧	1.2	U
1,2-Dichloroethane			11	D	<	1,310	UD	<	1,050	UD		6.4		<	1.2	U
2-Butanone		<	2.6	UD	<	1,310	UD	<	1,050	UD	<b>'</b>	1.2	U	<b>'</b>	1.2	U
1,1,1-Trichloroethane	613	V	2.6	WD	Κ.	1,310	W	V	1,050	UD	٧	1.2	U	٧	1.2	U
Carbon Tetrachloride		٧	2.6	UD	<	1,310	UD	<	1,050	UD	<	1.2	U	<	1.2	U
Bromodichloromethane		<	2.6	UD	<	1,310	UD	<	1,050	UD	<	1.2	U	<	1.2	U
1,2-Dichloropropane		<	2.6	UD	<	1,310	UD	<	1,050	UD	<	1.2	U	<	1.2	U
cis-1,3-Dichloropropene			93	JD		4,910	JD		21,751	D	٧	1.2	U	٧	1.2	U
Trichloroethene	13	٧	2,6	W	Y	1,310	UD	Y	1,050	UD	V	1.2	IJ	V	1.2	U
Dibromochloromethane		<b>'</b>	2.6	UD	<	1,310	UD	<	1,050	UD	<	1.2	U	<	1.2	U
1,1,2-Trichloroethane		<	23	UD	<	1,310	UD	<	1,050	UD	<	1.2	U	<	1.2	U
Benzene		<	2.6	UD	<	1,310	UD	<	1,050	UD	<	1.2	U	<	1.2	U
trans-1,3-Dichloropropene		<	2.6	UD	<	1,310	UD	<	1,050	UD	<	1.2	U	<	1.2	U
Bromoform	•	<	2.6	UD	<	1,310	UD	<	1,050	UD	<	1.2	U	<	1.2	U
4-Methyl-2-Pentanone		<	2.6	UD	<	1,310	UD	<	1,050	UD	<	1.2	U	<	1.2	U
2-Hexanone			73	JD		2,430	JD	<	1,050	UD	<	1.2	U	<	1.2	U
Tetrachloroethene	37	<	2.6	UD		1,084	JD	٧	1,050	W	V	1.2	U	<	1.2	U
1,1,2,2-Tetrachloroethane		<	2.6	UD	<	1,310	UD	<	1,050	UD	<	1.8	U	<	1.2	U
Toluene		<	2.6	UD	<	1,310	UD	<	1,050	UD	<	1.2	U	<	1.2	U
Chlorobenzene			54	JD		4,337	JD	<	1,050	UD	<	1.2	U	<	1.2	U
Ethylbenzene		<	2.6	UD	<	1,310	UD	<	1,050	UD	<	1.2	U	<	1.2	U
Styrene			711	DR		12,750	JD		1,449	D	<	1.2	U	<	1.2	U
Xylene (total)				:		•										

#### Notes:

- U The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.
- J The associated numerical value is an estimated quantity.
- UJ The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.
- R The data is unusable (compound may or may not be present.)
- D Compouds identified in an analysis at a secondary dilution factor.

Sample 1d is a duplicate of sample 1c.

#### Mixed Contaminant Soil Pesticides And PCBs (ug/Kg) Compliance Sample Summary

		la ug/kg		<b>**</b>	Ib ug/log	<b></b>		ic ug/kg	n		ld ug/kg	_		2a ug/kg	o		2b ug/kg	n		24 ug/kg			2d ug/kg	0		Ze ug/kg	0
alpha-BHC	****		000a a	****			<	1.9	U	<	2.1	U	_	1.9	U				-				1.7	U	-		
beta-BHC							~	1.9	U	~	2.1	U	<	1.9	U				ŀ			<	1.7	U			ĺ
delta-BHC							۷	1.9	U	2	2.1	U	<	1.9	U				l			<	1.7	U			
gamma-BHC (Lindane)				ŀ			~	1.9	U	۷	2.1	U	<	1.9	U				l			<	1.7	U			H
Hemschior							<	1.9	U	<	2.1	Ū	<	1.9	U							<	1.7	U			
Heptachlor spoxids							<	1.9	U	<	2.1	U	<	1.9	U							<	1.7	U			
Endosulfun I							<	1.9	U	<	2.1	U	<	1.9	U							<	1.7	U			
Dieldrin							<	3.9	U	<	4.1	U	<	3.8	U							<	3.4	U			
4,4°-DDE							<	3.9	U	<	4.1	U	<	3.8	U	l						<	3.4	U			
Endrin							<	3.9	U	<	4.1	U	<	3.8	U				l			<	3.4	U			
Radosulfan II							<	3.9	U	<	4.1	U	<	3.8	U				ļ			<	3.4	U	l		- 1
4,A*-DDD							<	3.9	U	<	4.1	U	<	3.8	U							<	3.4	U			
Endosulfan sulfate	L			L			<	3.9	U	٧	4.1	U	<	3.8	U	L			L			<	3.4	U	_		_
4,4'-DDT	<	3.6	U	<	5.4	U	<	3.9	U	٧	4.1	U	<	3.8	U	<	3.7	U	<	3.4	U	<	3.4	U	L	208.5	DP
Methoxychlor							<	19.4	U	<	20.5	U	<	19.2	U							<	17.0	U			
Endrin ketons							<	3.9	U	<	4.1	U	<	3.8	U							<	3.4	U	1		Ì
Endrin aklebyde	_			L			<	3.9	U	٧	4.1	U	<	3.8	U	ļ			L			<	3.4	U	<u> </u>		$\dashv$
alpha-Chlordane	<	1.8	U	<	2.7	U		1.3	JP		1.3	J	ŀ	10.2	P	<	1.9	U	<	1.7	U	<	1.7	U		71.7	D
gamma-Chlordane	<	1.8	U	<	2.7	U	<	1.9	U	<	2.1	U	Ļ.,	7.2	P	<	1.9	U	<	1.7	U		1.7	U		62.0	EJ
Toxaphene	_			L			<	194.0	U	٧	205.3	U	<	192.4	U	L			L			<	170.2	U	_		_
Arockor-1016	<	36.2	U	<	53.8	U	<	38.8	U	<	41.1	U	<	38.5	U	<	37.5	U	<	34.2	U	<	34.0	U	1	35.8	U
Arockor-1221	<	72.4	U	<	107.5	U	<	77.6	U	<	82.1	U	<	<i>7</i> 7.0	U	<	75.0	U	<	68.5	U	<	68.1	U	<	71.5	U
Aroclor-1232	<	36.2	U	<	53.8	U	<	38.8	U	<	41.1	U	<	38.5	U	<	37.5	U	<	34.2	U	<	34.0	U	<	35.8	υ
Aroclor-1242	<	36.2	U	<	53.8	U	<	38.8	U	<	41.1	U		38.5	U	<		U		34.2	U		34.0	U		35.8	U
Arocior-1248	<	36.2	U	<	53.8	U	<	38.8	U	<	41.1	U	<	38.5	U		37.5	U		34.2	U	1 -	34.0	U	1	35.8	U
Aroclor-1254		49.3	P		108.5		ļ	52.4	P		73.0			735.0	D	1 -	37.5	U		34.2	U	1	34.0	U	1	35.8	U
Aroclor-1260	<	36.2	U	<	53.8	U	<	38.8	U	<	41.1	U	<	38.5	U	<	37.5	U	<	34.2	U	<	34.0	U		176.5	P

		2f			3 <b>a</b>			3b			4a			4b			4¢			•			5ъ	
		ug/kg	Q		ug/kg	Q	<b>***</b>	ug/log	Q		ug/kg	Q		ագ/եր	Q		ug/kg		***	ug/kg	Q		ug/kg	୍ଦ
alpha-BHC	1															<	1.7	U	ı			1		
beta-BHC	1												1			<	1.7	U	ŀ			l		
delta-BHC	1			l									1			<	1.7	U	l			ı		- }
gamma-BHC (Lindane)	1						l			Į.			1			<	1.7	U	ŀ			ĺ		
Heptachlor	1						l			ł			ı			<	1.7	U	ŀ			l		
Heptachlor epoxide	1						l			i			1			<	1.7	U				l		
Endosulfan I	1						l			1			ı			<	1.7	U	ŀ					
Diektrin										1						<	3.5	U	ŀ					
4,4'-DDE	1						l			İ			1			<	3.5	U	ľ					- 1
Endrin	1												1			<	3.5	U	ŀ			l		- 1
Endorulfun II	1												l			<	3.5	U						l
4,4*-DDD	1						l			İ						<	3.5	U						
Endosulfan suifate	Щ			_			L_			$oxed{oxed}$			_			<		U	┕			╙		
4,4'-DDT		3.0	J		2.4		_	3.6	JP	<	3.4	U	<	3.6	U	ᆫ	3.2	J	Ļ	7.2	P	_	3.1	
Methoxychlor	1						1									1	17.4	U	1					l
Endrin ketone	1						1									<	3.5	U	1			1		ŀ
Endrin aldehyde				<u> </u>			<u> </u>						ļ			<	3.5	U	<b>!</b>			<u> </u>		
alpha-Chlordane	1	1.9	P		4.2	P	<	1.9	U		1.1	JP	<	1.8	U	<	1.7	U	1	21.1	P		126.0	
gamma-Chlordane	<u> </u>	1.9	P	<u> </u>	4.8	P	<	1.9	U	ļ	1.2	JP	<	1.8	U	<	1.7	U	<b>!</b>	24.6	P	<b>└</b>	153.5	DP
Toxaphene	<b>!</b>			<u> </u>			∟			<u> </u>			L				174.4	U	┞			1_		
Arocker-1016		33.6	U	<	36.1	U	<	37.1	U	<	34.1	U			U	<	34.9	U	<	36.9	U	<	35.5	U
Aroclor-1221	<	67.2	U			U	<	74.2	U	<	68.3	U	<	72.8	U	<	69.7	U	<	73.8	U	<	71.0	U
Arocker-1232	<	33.6	U	<	36.1	U	<	37.1	U	<	34.1	U	<		U	<	34.9	U	<	36.9	U	<	35.5	U
Arocker-1242	<	33.6	U	<	36.1	U	<	37.1	U	<	34.1	U	1	36.4	U		34.9	U	<	36.9	U	<	35.5	וט
Arocker-1248	<	33.6	U	<	36.1	U	<	37.1	U	<	34.1	U	<		U		34.9	U	<	36.9	U	<	35.5	U
Aroclar-1254	<	33.6	U	<	36.1	U	<	37.1	U	<	34.1	U	<		U		34.9	U	<	36.9	U		35.5	U
Arcelor-1260	<	33.6	U	٧	36.1	U	≤	37.1	U	<	34.1	U	<	36.4	U	≤	34.9	U	<	36.9	U	<u>ı&lt;</u>	35.5	U

#### Notes:

- U The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.
- J The associated numerical value is an estimated quantity.
- UI The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.
- P Pesticide / Aroclor target analyte has greater than 25 % difference detected concentrations between the two GC columns.
- D Compounds identified in the analysis at a secondary dilution factor.
- All concentrations ug/kg.

#### Mixed Contaminant Soil Metals (mg/Kg) Compliance Sample Summary

	****		<b></b>	11.	***	1c			id	****	***	28			2b			20			24		26
		mg/kg		mg/kg		mg/kg			mg/kg			mg/kg			mg/kg			mg/kg			mg/kg		mg/kg
	<u> </u>					·																	
Aluminum	ĺ		- 1			1,005.4			1,586.43			3,801.49		l							4,124.7		
Antimony			i		<	8.83	U	<	9.22	U	<	8.89	U				ĺ			<	8.43	U	
Arsenic			-		<	0.36	U		0.61	В		1.88					Ì			İ	2.06	_	
Barium			- 1			10.99	В		71.53			453.24		1							4.99	В	
Beryllium			1		<	0.18	U	<	0.19	U	<	0.18	U							<	0.17	U	
Cadmium					<	0.72	U	<	0.75	U	<	0.73	U							<	0.69	ש	
Calcium					1	512.52	В		825.02	В		1,123.94									275.04	В	
Chromium			- 1			25.77		1	77.74	J		549.91	J							1	5.68	_	
Cobalt			- 1		<	1.08	U	<	1.13	U	1	1.45	В	1			ŀ				1.20	B	
Copper						1.62	В		3.20	В		8.52									1.72	В	
Iron						249.05	J		469.64	J_		3,079.64	J	_			_			<u>_</u> :	3,089.22	1	
Lead	<	6.40	U	12.20		2.42	J	Ι	4.48	J		5.93	J	<	6.70	U	<	6.10	U	<u> </u>	4.44	J	212.00
Magnesium						41.63	BJ	1	79.62	BJ	1	898.86	BJ	1			1			1	840.94	BJ	
Manganese			1		ļ	9.01		1	15.06	J		40.81	J							ŀ	32.85	2.	
Mercury					<	0.13	U	<	0.13	U	<	0.13	U	ļ						<	0.12	ַ	
Nickel			- 1			2.16	В	<	1.88	U		5.80	В							l	4.82	В	
Potassium			ı		<	62.71	U	<	65.51	U	1	325.56	В	1			1				232.90	В	
Selenium	1				<	0.36	U	<	0.38		<	0.36	U							<	0.34	U	
Silver			-		<	0.72	U	<	0.75	-	<	0.73	U							<	0.69	U	
Sodium			- 1			34.42	В		48.56	В	1	50.60	В				1				55.39	В	
Thallium					<	0.18	U				<	0.18	U							<	0.17	Ū	
Vanadium			[			0.54	В	1	1.32	В		5.44	В								5.68	В	
Zinc			l			174.08		l	301.17		1	414.07									10.84		
Cyanide			- 1		<	0.27	U	<	0.31	U	<	0.28	U	L			_			<	0.26	U	L

2f	3 <b>a</b>	3b	4a	4b	4c	Sa .	5b
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aluminum Antimony Arsenic Barnum Beryllium Cadmium Calcium Chromium Cobalt Copper					3,013.86 < 7.98 U 2.70 10.91 B < 0.16 U < 0.65 U 619.54 B 18.89 1.79 B 3.09 B		
Iron				- C CO TT	3,352.53 J	< 6.60 U	< 6.30 U
Lead < 6.10 U	< 6.50 U	< 6.50 U	< 6.00 U	< 6.50 U			0.30
Magnesium Manganese Mercury Nickel Potassium Seleanium Silver Sodium Thallium Vanadium Zinc Cyanide					785.78 BJ 35.01 J < 0.11 U 5.21 B 227.79 B < 0.32 U < 0.65 U 29.63 B < 0.16 U 5.70 B 28.01 < 0.26 U		

#### Notes:

- U The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.
- J The associated numerical value is an estimated quantity.
- UJ The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

See Section 6.3 or 7.3 in "Methods for Evaluating the Attainment of Cleanup Standards," Volume 1

SITE: Wildwood Property

Number (j) and Description [2]

CHEMICAL: cPAHs (mg/kg)

Numbers in square brackets [] refer to the Worksheet from which the information may be obtained.

sting the Mean	
[2] $\alpha =$	0.05
[2] $Cs = \frac{1}{2}$	0.69
Number of Collectible Samples $[6] = n =$	16
Total of the concentration measurements [6] = $\sum x_i = B =$	4.412
Total for $x_i^2[6] = \sum (x_i)^2 = D =$	368.5
Mean Concentration - $\frac{B}{n}$ - $\bar{x}$ -	0.276
Standard Deviation of the Data - $\sqrt{\frac{D - n\bar{x}2}{n-1}}$ -s -	0.040
Degrees of Freedom for $s = n - 1 = df =$	15
$t_{I ext{-}lpha,df} =$	1.753
Standard Error for the Mean Concentration $-\frac{s}{\sqrt{n}}$	0.01
Upper One Sided Confidence Interval = $\bar{x}$ + $t_{1-\alpha, df}$ $\frac{s}{\sqrt{n}}$ = $\mu_{v\alpha}$ =	0.294
If $\mu_{U\alpha}$ < Cs then circle Clean, otherwise circle Dirty: Based on the mean concentration, the sample area is:	Clean Dirty

See Section 6.3 or 7.3 in "Methods for Evaluating the Attainment of Cleanup Standards," Volume 1

SITE: Wildwood Property

Number (j) and Description [2] CHEMICAL: 4,4-DDT (mg/kg)

Numbers in square brackets [] refer to the Worksheet from which the information may be obtained.

sting the Mean	
[2] $\alpha =$	0.05
[2] $Cs = $	23.5
Number of Collectible Samples $[6] = n =$	16
Total of the concentration measurements [6] = $\sum x_i = B =$	.265
Total for $x_i^2[6] = \sum (x_i)^2 = D =$	43.6
Mean Concentration - $\frac{B}{n}$ - $\bar{x}$ -	0.017
Standard Deviation of the Data - $\sqrt{\frac{D - n\bar{x}2}{n - 1}}$ -s-	0.052
Degrees of Freedom for $s = n - 1 = df =$	15
$t_{l-\alpha,df} =$	1.753
Standard Error for the Mean Concentration $-\frac{s}{\sqrt{n}}$	0.013
Upper One Sided Confidence Interval - $\bar{x}$ + $t_{1-\alpha, df}$ $\frac{s}{\sqrt{n}}$ - $\mu_{U\alpha}$ -	0.040
If $\mu_{U\alpha}$ < Cs then circle Clean, otherwise circle Dirty: Based on the mean concentration, the sample area is:	Clean Dirty

See Section 6.3 or 7.3 in "Methods for Evaluating the Attainment of Cleanup Standards," Volume 1

SITE: Wildwood Property

Number (j) and Description [2] CHEMICAL: Chlordane (mg/kg)

Numbers in square brackets [] refer to the Worksheet from which the information may be obtained.

sting the Mean	
[2] $\alpha =$	0.05
[2] $Cs =$	6.14
Number of Collectible Samples $[6] = n =$	16
Total of the concentration measurements [6] = $\sum x_i = B =$	0.533
Total for $x_i^2[6] = \sum (x_i)^2 = D =$	101.4
Mean Concentration - $\frac{B}{n}$ - $\bar{x}$ -	0.033
Standard Deviation of the Data - $\sqrt{\frac{D - n\overline{x}2}{n - 1}}$ -s-	0.075
Degrees of Freedom for $s = n - 1 = df =$	15
$t_{l-\alpha,df} =$	1.753
Standard Error for the Mean Concentration $-\frac{s}{\sqrt{n}}$	0.019
Upper One Sided Confidence Interval = $\bar{x}$ + $t_{1-\alpha, d'}$ $\frac{s}{\sqrt{n}}$ = $\mu_{U\alpha}$ =	0.066
If $\mu_{U\alpha}$ < Cs then circle Clean, otherwise circle Dirty: Based on the mean concentration, the sample area is:	Clean Dirty

See Section 6.3 or 7.3 in "Methods for Evaluating the Attainment of Cleanup Standards," Volume 1

SITE: Wildwood Property

Number (j) and Description [2]

CHEMICAL: Lead (mg/kg)

Numbers in square brackets [] refer to the Worksheet from which the information may be obtained.

ting the Mean	
[2] $\alpha =$	0.05
[2] $Cs = \frac{1}{2}$	640
Number of Collectible Samples $[6] = n =$	16
Total of the concentration measurements [6] = $\sum x_i = B =$	302.7
Total for $x_i^2[6] = \sum (x_i)^2 = D =$	45,259
Mean Concentration - $\frac{B}{n}$ - $\bar{x}$ -	18.9
Standard Deviation of the Data - $\sqrt{\frac{D - n\bar{x}2}{n - 1}}$ -s-	52.1
Degrees of Freedom for $s = n - 1 = df =$	15
$t_{l-lpha,df} =$	1.753
Standard Error for the Mean Concentration $-\frac{s}{\sqrt{n}}$	13.0
Upper One Sided Confidence Interval = $\bar{x}$ + $t_{1-\alpha, df}$ $\frac{s}{\sqrt{n}}$ - $\mu_{U\alpha}$ -	41.7
If $\mu_{U\alpha}$ < Cs then circle Clean, otherwise circle Dirty: Based on the mean concentration, the sample area is:	Clean Dirty

See Section 6.3 or 7.3 in "Methods for Evaluating the Attainment of Cleanup Standards," Volume 1

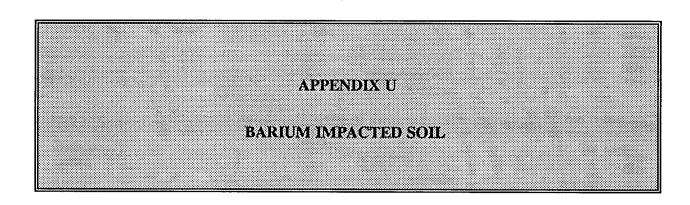
SITE: Wildwood Property

Number (j) and Description [2]

CHEMICAL: PCBs (mg/kg)

Numbers in square brackets [] refer to the Worksheet from which the information may be obtained.

sting the Mean	
[2] $\alpha =$	0.05
[2] $Cs = $	1.04
Number of Collectible Samples $[6] = n =$	16
Total of the concentration measurements [6] = $\sum x_i = B =$	4.25
Total for $x_i^2[6] = \sum (x_i)^2 = D =$	810.5
Mean Concentration - $\frac{B}{n}$ - $\bar{x}$ -	0.265
Standard Deviation of the Data - $\sqrt{\frac{D - n\bar{x}2}{n-1}}$ -s-	0.155
Degrees of Freedom for $s = n - 1 = df =$	15
$t_{1-\alpha,df} =$	1.753
Standard Error for the Mean Concentration $-\frac{s}{\sqrt{n}}$ -	0.0388
Upper One Sided Confidence Interval = $\overline{x}$ + $t_{1-\alpha, df}$ $\frac{s}{\sqrt{n}}$ = $\mu_{U\alpha}$ =	0.333
If $\mu_{U\alpha}$ < Cs then circle Clean, otherwise circle Dirty: Based on the mean concentration, the sample area is:	Clean Dirty



#### BARIUM IMPACTED SOIL

## **Background**

During the predesign investigation, RETEC conducted an investigation in November 1992 to delineate newly discovered sludges and any undiscovered sludges in the Wildwood property. This investigation included excavating test trenches every 25 feet along the access road. During this investigation, a white powdery substance was observed within the soil matrix in the northern portion of the access road along the sewer rights-of-way. In November 1992, a sample of this material was sent to New England Testing Laboratory, Inc. (NETL) to determine the chemical characteristics of the material. The initial results indicated that the suspect material contained barium, sulfur and silica (soil particles). The material was also found to contain hydrogen sulfide. As a result of this discovery, additional investigation was performed to determine the nature of the material and delineate it in the field. The results of these investigations are presented below.

#### Investigation

#### Phase I

In April 1993, an initial investigation was conducted to delineate the extent of the barium impacted soil on the Wildwood property. The purpose of the investigation was to determine the limits of this material. Soil borings were advanced in and along the wetlands east of the site access road. A two-inch diameter pipe with a one-half inch wide, thirty-six-inch long slot along the length of the pipe was used to collect samples for visual examination of the soil profile. The pipe was pounded into the ground to a depth of 36 inches and removed from the ground. The sample was then extruded from the pipe and inspected for the presence of barium powder within the soil matrix. The soil stratigraphy was logged in the field for each test hole. If barium powder was present within the soil matrix, another boring was advanced east of the previous boring to find the limits. This continued until no barium powder was present in the borings. All boring locations were surveyed in the field. Figure 1 presents the locations of the eight borings (B1-B8) along with all other subsequent investigation borings.

A backhoe was then utilized to dig twenty test pits west and east of the access road. Observations regarding soil stratigraphy and the presence or absence of barium impacted soil was present was recorded. Each test pit location was surveyed in the field. Figure 1 presents the location of the test pits (Pit 1-Pit 20). Two composite samples (1-1 and 1-2) of the barium impacted soil were collected and analyzed for the RCRA characteristics of ignitability, corrosivity,

and reactivity. One composite sample was taken from Test Pits 5 and 7, the other composite sample was taken from Test Pits 10 and 12. The results are presents in Table 1.

#### Phase II

On June 3, 1993, additional investigation activities were performed. Test borings were installed to further delineate the eastern limits of barium impacted soil, and composite samples were collected to further define the nature of the barium impacted soil. Delineation of the eastern limits of the barium impacted soil was conducted by hand excavation to a depth of two feet in an along the wetlands. Holes were dug at 10 foot intervals in an easterly direction until no barium impacted soil was encountered (H1-H22). Soil stratigraphy and the presence or absence of barium impacted soil were recorded. The locations of all test holes were surveyed in the field and are presented in Figure 1. Seven composite samples (2-1 through 2-7) were collected to characterize the barium impacted soil in the soil. Aliquots from locations across the lateral extent of barium impacted soil were combined into composite samples at seven locations along the observed length of the material to represent the nature of the barium impacted soil over the entire area. A total of seven composite samples were collected and sent for RCRA reactivity analysis at NETL. Table 1 presents the results of the analysis.

#### Phase III

On August 16, 1993, an additional sample of barium impacted soil was collected to further characterize the material for parameters not evaluated during the first two phases on investigation. A composite sample was collected from two locations within the area of barium impacted soil defined by the Phase I and Phase II delineation efforts. The sampling locations are presented in Figure 1. Aliquots were collected by hand digging to a depth of two feet below grade, then scaping the walls and bottom of the excavation with a hand trowel and transferring the material into two, eight-ounce glass sampling jars.

The composite sample was analyzed for total barium, total sulfide, total sulfate, and TCLP. The full suite of toxicity characteristics, including volatiles, semivolatiles, pesticides, herbicides, and metals were analyzed following the TCLP extraction. In addition to the standard TCLP analytes, sulfide, sulfite, and sulfate in the leachate were quantified as well.

## **Extent of Barium Impacted Soil**

Investigation activities identified the limits of the barium impacted soil east and south of the northwestern property boundary. Figure 1 presents the limits. No exploration was conducted outside of the Wildwood property and City of Woburn boundaries. Barium impacted soil was encountered at western property boundary abutting the railroad right-of-way and at the Olympia Nominee Trust property boundary to the north.

The stratigraphy of the barium impacted soils generally consisted of a six-inch to one-foot layer of brown sand or sandy silt over a six-inch to two-foot layer of soil with barium powder within the soil matrix. A wet, dark brown to black organic peat was encountered under the layer of barium impacted soil. Figure 2 presents cross-sections of the barium impacted soils area along the Phase I and Phase II composite sample locations. Figure 2 also shows the approximate locations of the MWRA and City of Woburn sewer easements. This figure shows a distinct layer of barium powder within the soil matrix over the sewer easements which tapers off east and west of the easements.

The volume of soil containing barium impacted soil is estimated at 1,100 cubic yards. This volume is based upon the horizontal and vertical limits identified during the supplemental sludge investigation.

#### Chemical Composition of Barium Impacted Soil

The original chemical characterization of the barium impacted soil during the Wildwood Property Predesign Investigation identified the material as being largely composed of barium, sulfide, and rock forming minerals common to native soils. Laboratory analyses performed on samples of the material indicated the barium impacted soil is not hazardous waste.

The presence of barium sulfide in the suspect material was confirmed in sample TP-6 when hydrogen sulfide gas was generated during the sulfide reactivity test. Despite the initial laboratory report that indicated that the dry solids show significant levels of barium, the presence of barium sulfide could not be confirmed in three of the nine composite samples. The presence of more than one barium compound in the material would help to explain these apparently inconsistent results. Unfortunately, there is currently no one analytical method that is capable of quantifying the concentrations of all of the possible barium compounds present in a sample. However, the analytical results of sample # 2 Barium powder, obtained during the Phase III investigation (Case

Number D0817-05), does provide some additional insights. The concentration of Total Barium in sample #2 Barium powder was 7,120 mg/Kg, while the TCLP Extractable Sulfide and Total Sulfide concentrations were below their respective quantification limits. In contrast, both the TCLP Extractable Sulfate and Total Sulfate tests on sample #2 Barium powder indicate the presence of sulfates. Even though these particular series of analytical tests were conducted on only one sample, the results confirm that barium sulfate is present in the suspect material. The fact that barium sulfate is present in the material is not surprising if the natural fate mechanisms of barium containing compounds are considered. For example, barium sulfide will tend to oxidize in dry air and slowly decompose in damp air into carbonate and other compounds (Merck, 1989). In solution, barium sulfide will decompose and combine with sulfate to form barium sulfate (EPA, 1985). The tendency of barium sulfide to readily form barium sulfate in an aqueous solution is one of the reasons it is difficult to quantify the amount of barium sulfide actually in the material. The analytical results along with what is known about the reactive mechanisms of barium compounds suggest that the predominant barium compound at the site is probably barium sulfate.

## **Toxicity Evaluation**

The Endangerment Assessment (Clement, 1988) indicated that the potential adverse effects in humans following oral exposure to barium were associated with soluble barium compounds. A review of the toxicity studies, cited in EPA's Integrated Risk Information System (IRIS) database, that provided the basis for establishing an oral reference dose for barium confirms this statement. For example, the study that provided the basis for establishing the current NOAEL of 10 mg/L involved administering barium chloride in the drinking water to 11 healthy male volunteers. Although there were no changes in systolic or diastolic blood pressures, or serum chemistry of these volunteers, there was an increase in their serum calcium levels. The increase in serum calcium levels is described in IRIS as statically significant, but not clinically significant.

A retrospective epidemiology study of barium exposure was also cited in IRIS that involved comparing human mortality and morbidity rate in populations ingesting elevated barium levels in their drinking water to populations ingesting very little or no barium. Differences in mortality rates from all cardiovascular diseases were significantly higher in the communities with elevated barium in their water. However, these differences were largely in the 65 and over age group and did not account for confounding variables such as population mobility, or use of medication. When further analyzed, the data from the study indicated that there were not significant differences in mean systolic and diastolic pressures between the two communities. In addition, no significant differences were found when the total populations were broken down by duration, medication, or use of water softeners. Also, the prevalence rates for hypertension,

stroke, and heart and kidney disease were not significantly different between the two communities.

Insoluble forms of barium, particularly barium sulfate, are not toxic by ingestion or inhalation because only minimal amounts are absorbed (EPA, 1985). Therefore, a summary of the solubilities of various forms of barium provides a simple means of evaluating their relative potential toxicity to humans. Of the various barium compounds, barium chloride is considered very soluble in water, barium sulfide is slightly soluble, barium carbonate is almost insoluble, and barium sulfate is practically insoluble in water (Merck, 1989).

Barium compounds have not been evaluated by the U.S. EPA for evidence of human carcinogenic potential. Since the 1988 Endangerment Assessment (Clement, 1988) was prepared, the U.S.EPA raised the oral reference dose for barium to 0.07 mg/kg-day from 0.05 mg/kg-day. The calculation of cleanup levels discussed in the following section considered the more recent reference dose cited in IRIS.

There are currently no ambient water quality criteria for aquatic organisms. It is generally believed that the physical and chemical properties of barium will preclude the existence of toxic soluble forms under usual marine and fresh water conditions and thus a restrictive criterion for aquatic life is considered unwarranted (IRIS, 1994).

# Calculation of Cleanup Levels

The same methodology and exposure assumptions used in the 1988 Endangerment Assessment (Clement, 1988), for ingestion and dermal contact scenarios were used to calculate a concentration of barium that would result in a hazard index of 1 or an intake equal to the reference dose. As stated above, the latest oral reference dose for barium of 0.07 mg/kg-day was used in the calculation. Equations No. 2 and No. 3 in the Endangerment Assessment Report (Clement, 1988) for oral and dermal chronic daily intakes using a chemical concentration of 1 ppm (mg/kg) of barium were combined with the reference dose as follows:

$$UHI = (CDI_{oral} + CDI_{derm}) / RfD_{oral}$$

where:

CDI_{oral} = oral chronic daily intake (mg/kg-day);

CDI_{dermal} = dermal chronic daily intake (mg/kg-day); and

UHI = unit hazard index;

 $RfD_{oral} = oral reference dose.$ 

The unit hazard index value calculated in Equation 1 represents the noncarcinogenic health effect associated with exposures to 1 ppm of barium in the soil/sludge. The cleanup level for each receptor was calculated by determining the concentration associated with a hazard index value of 1, as follows:

$$CL(ppm) = 1 ppm / UHI$$

where:

CL = cleanup level (ppm);

UHI = unit hazard index.

The most conservative cleanup level calculated for barium, presented in Table 2, was 68,438 mg/kg-soil. This cleanup level was calculated for a plausible maximum exposure of a young male adult resulting from ingestion and dermal exposure of impacted soil. It should be noted that the cleanup levels presented in Table 2 represent health-based concentrations for soluble barium compounds. Individual toxicity values on the various suspected barium compounds, such as barium sulfate, are not available.

# **Summary/Recommendation**

The methodology used to calculate health-based cleanup levels for the various receptor groups was based on the very conservative assumption that all of the barium powder found within soils at the site is composed of pure barium sulfide, even though there is evidence that suggests that the predominant barium compound present is probably barium sulfate.

As previously discussed, there is currently no direct means of determining the concentration of the various barium compounds present at the site. However, the reactivity sulfide data, summarized in Table 1, could be used to provide an approximate means of determining the amount of barium sulfide present at the site. For example, the highest concentration of reactive sulfide present at the site. For example, the highest concentration of reactive sulfide detected was 407 mg/kg in sample # 2. The actual concentration of barium sulfide present in this sample may be as high as 1,000 mg/kg. This is due in part to the tendency of barium sulfide to rapidly form barium sulfate in an aqueous solution. Since the assumed maximum detected concentration of barium sulfide is 49 times less than the most stringent health-based cleanup level, it is reasonable to conclude that the barium impacted soil present at the site does not pose a threat to human health via ingestion or contact.

A review of the groundwater monitoring data collected in September 1992, indicates that barium is not present in elevated concentrations at the Wildwood Property. This is not entirely unexpected since barium is not soluble at more than a few parts per million in water that contains sulfate at more than a few parts per million (EPA, 1985). The highest concentration of barium, observed during this sampling event, was 0.0659 mg/L in Well S-88M. In contrast, the Maximum Contaminant Level (MCL) for barium is 2 mg/L. This comparison indicates that the barium impacted soil is not a threat to human health via the groundwater pathway.

In conclusion, it is reasonable to conclude that the barium impacted soil found at the Wildwood Property does not pose a threat to human health and may be left in place.

TABLE 1

# Barium Soil Sample Results Wildwood Property Wells G & H Superfund Site

	Read	etivity				
Sample #	Suifide (mg/kg	Cyanide (mg/kg)	Corrosivity (ph. S. U.)	Ignitability (Degrees F.)		
Phase I						
1 a	45	<0.3	6.8	>200		
2 b	407	<0.3	>200			
Phase II						
1 °	3.0		••			
2 ^d	<1.0					
3 °	5.3					
4 ^f	<1.0	]				
5 ^g	23					
6 h	20					
7	<1.0					

#### NOTES:

a	-	Composite sample taken from test pits 5 and 7.
b	-	Composite sample taken from test pits 10 and 12

c - Composite sample taken from test pits 1, 2 and boring 1.

d - Composite sample taken from test pits 3, 4 and boring 2, 3.
e - Composite sample taken from test pits 7, 8 and boring B4, B5.

f - Composite sample taken from test pits 9, 10, 11, and 12.

g - Composite sample taken from test pits 13, 14 and 15.

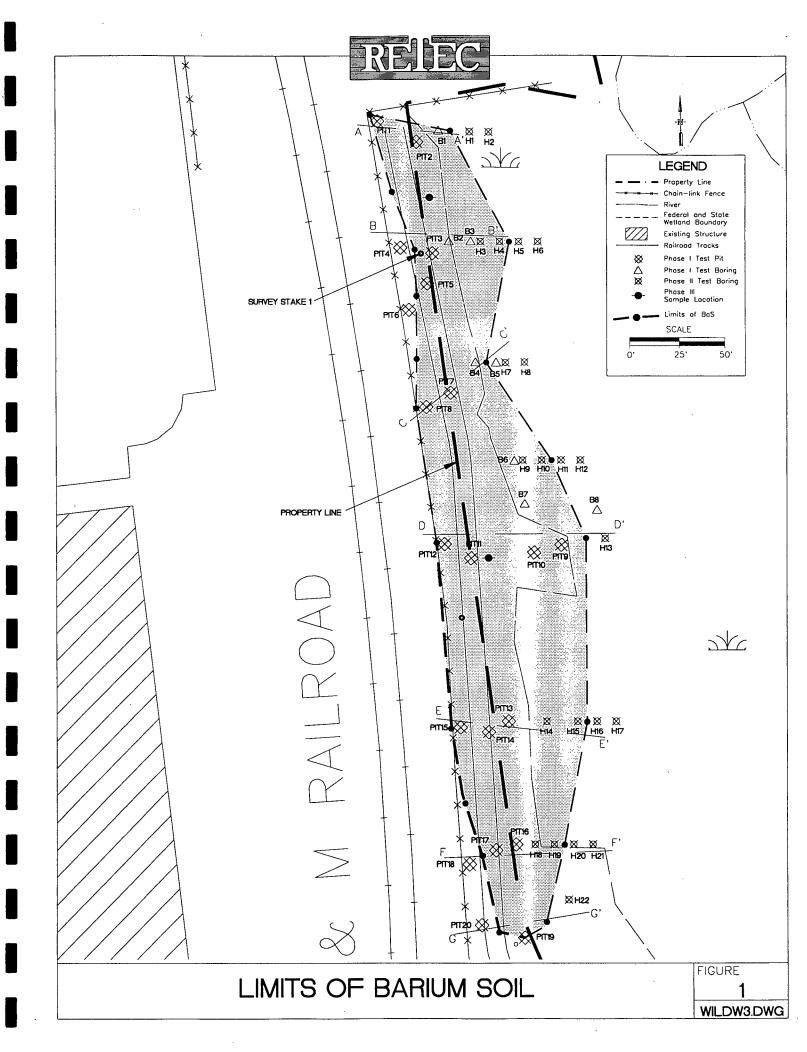
h - Composite sample taken from test pits 16, 17 and 18.

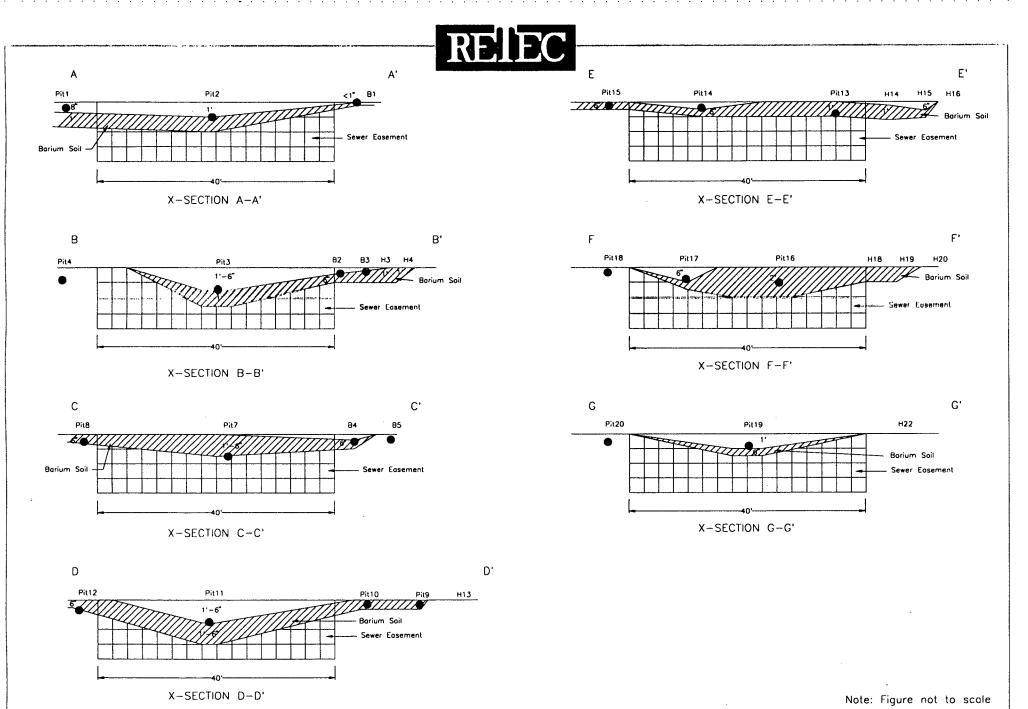
Table 2

Calculation of Cleanup Goals for Barium at the WELLS G&H site based on EBASCO Endangerment Report Pathways Considered: Ingestion, dermal absorption

Barium Oral RfD = 0.05 mg/kg-day

	RECEPTOR: YOUNG ADULT		RECEPTOR: I	UT. RESIDENT	RECEPTO	OR: CHILD	RECEPTOR: ADULT			
EXPOSURE PARAMETER	MEDIUM: S	OIL JIC	MEDIUM: SOIL/SLUDGES		MEDIUM: S	DIL/SLUDGES	MEDIUM: SEDIMENTS		MEDIUM: SEDIMENTS	
	Average	Plausible Max	Average	Plausible Max.	Average	Average Plausible Max.		Plausible Max	Average	Plausible Max
									_	
I=Amount of soil ingested (mg/vi	25	100	50		54	_ · · ·	0	0	0	0
AI=differential absorption factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
E=frequency of exposure events (	48	100	100	168	100	1	16	32	16	
YR=years of exposure (years)	10	10	6	6	70		5	5	5	30
X=conversion factor (kg/1E6 mg)	1E-06	1E-06	1E-06	1E-06	1E-06	1E-06	1E-06	1E-06	1E-06	*
BW=average body weight (kg)	70	70	45	45	70	70	27	27	70	70
DY=days in a year (days/yr)	365	365	365	365	365	365	365	365	365	365
YL=averaging period (years)	10	10	6	6	70	70	5	5	5	30
CD=contact rate for soil (g/visit)	0.4	0.99	0.4	0.99	0.79	5.4	0.3	0.9	0.42	1.26
Z=conversion factor (kg/1000g)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
ABS=dermal absorption factor	1%	10%	0%	0%	0%	0%	1%	10%	1%	10%
CLEANUP LEVEL (mg/kg-soil)	917,744	64,196	164,250	48,884	236,574	52,443	10,265,625	171,094	19,010,417	316,840





WILDWOOD CROSS SECTIONS OF BARIUM SOIL FIGURE **2** 0947X010

#### REPORT OF ANALYTICAL RESULTS

Case Number: C1217-03

#### Prepared for:

Remediation Technologies, Inc. Damonmill Square 9 Pond Lane Concord, MA 01742

#### Prepared by:

New England Testing Laboratory, Inc. 1254 Douglas Avenue North Providence, RI 02904

Date: 21 JANUARY 1993

Reviewed By:

Mark H. Bishop/ Laboratory Director

#### NEW ENGLAND TESTING LABORATORY, INC.

1254 Douglas Avenue, North Providence, Rhode Island 02904-5392 • 401-353-3420

The following samples were submitted to New England Testing Laboratory on 17 December 1992:

Wells G&H - Woburn, Supplemental Sludge Investigation:

Sample ID	Description
TP-43-2	Bright blue chunks
TP-6	Gray/white, moist powder
TR-16	Dark gray, moist clay-like semi-solid
SL-8-1	Yellow/white, translucent grease
TR-39-1	Rust colored chunks
TR-44	White fibers solid mixed with soil-like solids
TP-43-1	Dark brown chunks

These samples were submitted to the laboratory for qualitative identification. The following text details the analyses performed and the results of those analyses.

## Qualitative analysis of "TP-43-2"

The material looses approximately 25% of its weight upon ignition at 500C, indicating a mix of 75% inorganics and 25% organics/water.

An energy dispersive X-ray spectrum (EDS) of the material indicates that silicon dioxide is the primary inorganic with traces of magnesium present. No heavy metals are present in bulk quantities.

The organic portion of the sample was extracted from the silica with chloroform/acetone and analyzed by Fourier Transform Infrared spectroscopy (FTIR). (The blue color is solvent extractable.) This analysis indicates that the organic fraction of the sample is an aromatic ester, possibly a fiber reactive blue dye/pigment.

# Qualitative analysis of "TP-6"

Oven drying at 105C indicates a water content of 32%.

An EDS of the dry solids shows significant levels of Barium (possibly titanium), sulfur, and silica. Potassium and aluminum were present at trace levels.

The presence to significant levels of barium is confirmed by inductively coupled argon plasma atomic omission spectroscopy.

Ignition at 500 C results in a weight loss of about 8%. Loss of hydrogen sulfide would account for this weight loss.

The sample generates hydrogen sulfide gas upon dissolving in hydrochloric acid. This result together with the EDS results indicates that the solids are barium sulfide.

2 Simples Acachinity
Conssivily
Ignitability

REPORT OF ANALYTICAL RESULTS

Case Number: D0415-04

Prepared for:

Remediation Technologies Damonmill Square 9 Pond Lane Concord, MA 01742 Attn: Michael Gardner

Prepared by:

New England Testing Laboratory, Inc. 1254 Douglas Avenue North Providence, RI 02904

Date Reported: 22 APRIL 1993

Reviewed By: Manton

Mark H. Bishop

Laboratory Director

#### NEW ENGLAND TESTING LABORATORY, INC.

1254 Douglas Avenue, North Providence, Rhode Island 02904-5392 • 401-353-3420

## Sample Description

The following samples were submitted to New England Testing Laboratory on 15 APRIL 1993:

"Wells G & H"

- 1. #1
- 2. #2

The Custody record is included in this report. The samples were assigned an internal identification code (case number) for laboratory information management purposes. The case number for this sample submission is as follows:

Case Number: D0415-04

#### Request for Analysis

The following table details the analyses performed on the samples:

<u>Sample</u>	<u>Analysis</u>	Method*
D0415-04: 1. #1 2. #2	Reactivity Cyanide Sulfide Corrosivity-pH Ignitability	7.3.3.2 7.3.4.1 9040 1010

^{*}Note: These methods are documented in:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA.

# Quality Assurance/Control Statements

All samples were found to be properly preserved/cooled upon receipt. All analyses were performed within EPA designated holding times. Procedure/calibration checks required by the designated protocols were within control limits.

## Case No. D0415-04

# #1

Paramete.	Result, mg/Kg				
Reactivity					
Sulfide	45				
Cyanide	<0.3				
Corrosivity					
pH, S.U.	6.8				
Ignitability, Deg. F	>200				

## #2

<u>Parameter</u>	Result, mg/Kg			
Reactivity				
Sulfide	407			
Cyanide	<0.3			
Corrosivity				
pH, S.U.	5.9			
Ignitability, Deg. F	>200			

CUSTODY RECORD

# CHAIN OF CUSTODY RECORD

2094	i	PROJECT	NAME C//S	62	1-1-1							///			٠
SAMPLER	S: (Signatu	re)					NO. OF CON- TAINERS		8		/ /			REMARKS	
SAMPLE NO.	DATE	TIME		SAM	PLE LO	CATION	,,,,,,_,,		KCRA ACRA						
1	4/14	5;0						,	4	-		(A)	למוחד	Bas (Truck)	
Z	4/14	6:40						,							
			· ·								-				
									-						
										-				***************************************	
Relinquis	hed by: (A	Signaturer (		Date /	Time	Received by: (Signature)		Relinqu	ished t	y: (Signa	iture)		Date / Tim	Received by 1/2 praterior	
Relinquis	hed by:	Signature)		Date /	Time	Roceived by: (Signature)		Reling	rished t	y: (Signa	alure)		Date / Tim	Received by salurui	
Relinquis		Signature)		Date /	Time	Received for Laborator (Signature)		4/	<i>'</i>	/ Time		131	REI	MEDIATION TECHNOLOG Damonmill Square 9 Pond Lane	GIES

REMEDIATION TECHNOLOGIES INC

Concord, MA 01742

Des Sonder Ceclic
7 Simples Sulfide Reactivity

REPORT OF ANALYTICAL RESULTS

Case Number: D0604-08

Prepared for:

Remediation Technologies, Inc. 9 Pond Lane Concord, MA 01742 Attn: Tom Clark

Prepared by:

New England Testing Laboratory, Inc. 1254 Douglas Avenue North Providence, RI 02904

Date Reported: 10 JUNE 1993

Reviewed By: 134/11/134

Mark H. Bishop Laboratory Director

#### NEW ENGLAND TESTING LABORATORY, INC.

1254 Douglas Avenue, North Providence, Rhode Island 02904-5392 • 401-353-3420

#### Sample Description

The following samples were submitted to New England Testing Laboratory on 4 JUNE 1993:

"Wells G & H"

- 1. #1
- 2. #2
- 3. #3
- 4. #4
- 5. #5
- 6. #6
- 7. #7

The Custody record is included in this report. The samples were assigned an internal identification code (case number) for laboratory information management purposes. The case number for this sample submission is as follows:

Case Number: D0604-08

#### Request for Analysis

The following table details the analyses performed on the samples:

Reactivity-S

Section 7.3.4.1

Method* <u>Analysis</u> Sample

D0604-08:

1. #1

2. #2

3. #3

4. #4

5. #5

6. #6

7. #7

*Note: These methods are documented in:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA.

#### Quality Assurance/Control Statements

All samples were found to be properly preserved/cooled upon receipt. All analyses were performed within EPA designated holding times. Procedure/calibration checks required by the designated protocols were within control limits.

ANALYTICAL RESULTS

Case No. D0604-08

## Reactive Sulfide

<u>Sample</u>	Result, mg/Kg
#1	3.0
#2	<1.0
#3	5.3
#4	<1.0
#5	23
#6	20
#7	<1.0

CUSTODY RECORD

																		000	<del></del>
PROJ. NO	. 1	PROJECT	NAME										7	7	7/		_		
094	171	WE	ZUS	$\mathcal{C}$	& H	-						27	/ /	/ /	′ /				•
SAMPLER	8: (Sig/a)		1							NO. OF		2				/ /			
Du	1.	L. H	<del>/</del>							CON-	λ,				/ /	′ /		REMARKS	
Vice of the second	10)	7097		<del>.</del>						TAINERS	27	/	/ /	/ /			., .		
SAMPLE NO.	DATE	TIME			SAM	PLE LOC	CATION	N			35/					/ Rea	CHUIT	u Sulfide	;
	6-3-93	>									1						O)		
7		_		<u></u>						1								<u> </u>	
<u> </u>	G-3-9			<del></del>							1/								
	6-39		<u></u>							<del>- </del>			_						
4	6-3-9	1	ļ							1	1			_	<del>                                     </del>				
5	639				<del>,</del>									_					
6	6-3-9		ļ												-				
7	6-3-9	3										_							
																	\		
												_				W.	ork O	rur #	
						_			,,,			_				ME	ETL-	$\infty$ Z	
			1																
	<del> </del>																		
			<del>                                     </del>																
	<del> </del>		2/																
Relingui	shed by	(Signatu <b>j</b> e)	<del>////</del>	T	Date /	Time	Rece	elved by	: (Signalure)		Relinq	ulshed	d by: (5	Signature	?)	C	ate / Time	Received by: (Signature)	
1		MH	H	6-3	CTZ	000	7												
1	et	Sul	1 <u>~</u>	6-5	Pate /	Time	Rece	elved by	r: (Signature)		Reling	ulshed	d by: (S	Signatur	2)		ate / Time	Received by: (Signature)	
Helindai	snea by	(Signature)			]			,											
					5-4-		Pas	alved to	r Laborato	irv hv:		Dat	te / Ti	me	<del>_</del>	l			
Relinqu	ished by	: (Signature)		Ì	שואט /	Time	(Sign	alure)			101	4/92	1				REM	EDIATION TECHNO	LOGIE
				İ			15	Ma	MMa	101	- 14/	416	)			717		Damonmill Square	е
REMAR	KS:										•				REN	LEDIATI	0 N	9 Pond Lane Concord, MA 0174	2 .

R E M E D I A T I O N TECHNOLOGIES INC

234013548951

Debris Soil O TELD - RORA cor In Reset HI I'M I'M BAS TELP + sulfide

total sulfides

REPORT OF ANALYTICAL RESULTS

Case Number: D0817-05

Prepared for:

Remediation Technologies, Inc. 9 Pond Lane Concord, MA 01742 Attn: Jamie Greacen

Prepared by:

New England Testing Laboratory, Inc. 1254 Douglas Avenue North Providence, RI 02904

Date Reported: 3 SEPT 1993

Reviewed By: Mar 1790.

Mark H. Bishop

Laboratory Director

NEW ENGLAND TESTING LABORATORY, INC.

1254 Douglas Avenue, North Providence, Rhode Island 02904-5392 • 401-353-3420

### Sample Description

The following samples were submitted to New England Testing Laboratory on 17 AUG 1993:

"Wells G & H RD/RA"

- 1. #1 Debris Soil B
- 2. #2 Bas

The Custody record is included in this report. The samples were assigned an internal identification code (case number) for laboratory information management purposes. The case number for this sample submission is as follows:

Case Number: D0817-05

**3**4013548951

# Request for Analysis

The following table details the analyses performed on the samples:

The lollowing basic as the	Analysis	Method*
Sample	MICLY CL	
D0817-05: 1. #1	Corrosivity-pH Reactivity-CN -S Ignitability Pesticides/PCB's Ash BTU's Grain Size Moisture	9040 Section 7.3.3.2 Section 7.3.4.1 1010 8080 209D D2382-76 D422 EPA/CE 3-58
1. #1 2. #2	TCLP Extraction TC Volatiles TC Semivolatiles TC Pesticides TC Herbicides Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	1311 8240 8270 8080 8150 7060 6010 6010 6010 7470 7740 6010
2. #2	TCLP Extraction Sulfide Sulfite Sulfate Barium Sulfide Sulfate Sulfate Sulfite	1311 376.2 377.1 375.4 6010 9030 9038

*Note: These methods are documented in:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA.

Procedure for Handling and Chemical Analysis of Sediment adn Water Samples, EPA/CE-81-1, US Army Engineer Waterways Experiment Station.

Standard Methods for the Examination of Water and Wastewater, 16 & 17th Edition, 1989, APHA, AWWA-WPCF.

Manual of Methods for Chemical Analysis of Water and Water Wastes, EPA-600/4-79-020 (Revised 1983), USEPA/EMSL.

## Quality Assurance/Control Statements

All samples were found to be properly preserved/cooled upon receipt. All analyses were performed within EPA designated holding times. Procedure/calibration checks required by the designated protocols were within control limits.

ANALYTICAL RESULTS

Case No. D0817-05

#### #2 Bas

Parameter	Result,g/Kg
TCLP Extractables	Attached
TCLP Extractable, mg/L:	
Sulfide	<0.02
Sulfite	<1.0
Sulfate	23
Total Sulfide	<0.5
Total Sulfite	<25
Total Sulfate	349
Total Barium	7120

sample: #2 Bas

Case No. D0817-05

Date TCLP Extracted: 8/22/93
Date Analyzed*: 8/23/93

TCLP Extractable Metals:	Result, mg/L	Regulatory <u>Limit, mg/L</u>
Arsenic	<0.1	5.0
Barium	<0.5	100.0
Cadmium	<0.05	1.0
Chromium	0.11	5.0
Lead	<0.2	5.0
Mercury	<0.005	0.2
Selenium	<0.1	1.0
Silver	<0.05	5.0

^{*} Date Completed

Sample: #2 Bas

Case No. D0817-05

Date TCLP Extracted: 8/22/93

Date Analyzed: 8/29/93

## TCLP Volatile Organic Compounds:

Compound	Concentration mg/L (ppm)	Regulatory Limit, mg/L (ppm)
Benzene	<0.02	0.5
Carbon Tetrachloride	<0.02	0.5
Chlorobenzene	<0.02	100.0
Chloroform	<0.02	6.0
1,4-Dichlorobenzene	<0.02	7.5
1,2-Dichloroethane	<0.02	0.5
1,1-Dichloroethylene	<0.02	0.7
Methyl Ethyl Ketone (MEK)	<0.5	200.0
Tetrachloroethylene	<0.02	0.7
Trichloroethylene	<0.02	0.5
Vinyl Chloride	<0.04	0.2
Surrogates:	<pre>% Recovery</pre>	<u>Limits</u>
Toluene d8	89	88-110
1,2-Dichloroethane-d4	107	76-114
4-Bromofluorobenzene	109	86-115

sample: #2 Bas

Case No. D0817-05

Date TCLP Extracted: 8/22/93 Date Prep Extracted: 8/24/93

Date Analyzed: 9/1/93

## TCLP Extractable Pesticides/Herbicides:

Compound	Concentration mg/L (ppm)	Regulatory Limit, mg/L (ppm)
Chlordane	<0.01	0.03
2,4-D	<0.05	10.0
Endrin	<0.001	0.02
Heptachlor	<0.001	0.008
Heptachlor Epoxide	<0.001	0.008
Lindane	<0.001	0.4
Methoxychlor	<0.005	10.0
Toxaphene	<0.01	0.5
2,4,5-TP Silvex	<0.05	1.0

8ample: #2 Bas

Case No. D0817-05

Date TCLP Extracted: 8/22/93 Date Prep Extracted: 8/23/93

Date Analyzed: 8/24/93

# TCLP Semivolatile Base/Neutral Extractable Compounds:

Compound	Concentration mg/L (ppm)	Regulatory Limit, mg/L (ppm)
1,4-Dichlorobenzene Hexachlorobenzene Hexachloro-1,3-butadiene Hexachloroethane Nitrobenzene Pyridine 2,4-Dinitrotoluene	<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	7.5 0.13 0.5 3.0 2.0 5.0

# TCLP Semivolatile Acid Extractable Compounds:

Compound	Concentration mg/L (ppm)	Regulatory <pre>Limit, mg/L (ppm)</pre>
o-Cresol m-Cresol p-Cresol Pentachlorophenol 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1	200.0 200.0 200.0 100.0 400.0 2.0

Surrogates:	% Recovery	Limits
Nitrobenzene d5 2-Fluorobiphenyl p-Terphenyl d14 Phenol d6 2-Fluorophenol 2,4,6-Tribromophenol	43 59 56 40 50 63	35-114 43-116 33-141 10-94 21-100 10-123

orth Providence, RI 02904	CHAIN	OF CUSTOR	DDY RECORD	
PROJECT NAME  PROJECT NAME  PROJECT NAME  PROJECT NAME  PROJECT NAME  PROJECT NAME  PROJECT NAME  PROJECT NAME  PROJECT NAME  PROJECT NAME  PROJECT NAME  PROJECT NAME  PROJECT NAME	10/RA		REMARKS	
SAMPLE DATE TIME OF R U	STATION LOCATION		Ar per verbal discussions. First analysis	1
1 8-K-23 4pm x	abus Piles G7, 9, U, + Soth	12	Ar per verbal discussions. First analysis  ses 8080, subsequent analyses subject  to Estatts of seps 8080	_
2 5-x 2) 4pm 2	Test lite mar will 7 and 12	2	V V V Add sulfide, sulfide, and sulfate  to the leachate analyte list	
Abus (Signature)	Date/Time Heceived by: (5	Signulule)	Retinquished by: (Signature)  Date/Time Received by: (Signature)	
Relinquished by: (Signature)  Relinquished by: (Signature)  Relinquished by: (Signature)	(Signature)	Signaturo) Laboratory by: M/V/L((L/)	Rollinguished by: (Signature)  Date/Time Received by: (Signature)  Date/Time Remarks  A ) (M1)  (M1)  (M1)	<u>٠</u>

NE TESTING LAB